SAMSUNG

SAMSUNG LASER PRINTER

User's Guide

ML-1430



This manual is provided for information purposes only. All information included herein is subject to change without notice. Samsung Electronics is not responsible for any damages, direct or indirect, arising from or related to use of this manual.

© 2002 Samsung Electronics Co., Ltd. All rights reserved.

- ML-1430 Series and Samsung logo are trademarks of Samsung Electronics Co., Ltd.
- Centronics is a trademark of Centronics Data Computer Corporation.
- IBM and IBM PC are trademarks of International Business Machines Corporation.
- Microsoft, Windows, Windows 9x, Windows Me, Windows NT, Windows 2000 and XP are trademarks of Microsoft Corporation.
- GNU Ghostscript software, Copyright (C) 1999. Aladdin Enterprise, Menlo Park, California, and other authors as indicated in its documentation.
- Apple, Macintosh, Power Macintosh, iMac and iBook are trademarks of Apple Computer, Inc.
- Adobe and Adobe Acrobat Reader are trademarks of Adobe Systems.
- All other brand or product names are trademarks of their respective companies or organizations.

Contents

Chapter 1 Introduction

Special Features ---------- 1.1
Printer Components ---------- 1.3

Chapter 2 Setting Up Your Printer

STEP 1: Unpack Your Printer ---------- 2.1
STEP 2: Install the Toner Cartridge ---------- 2.2
STEP 3: Loading Paper ---------- 2.4
STEP 4: Connect to the Computer with a Parallel Cable – 2.6
STEP 5: Turn on the Printer ---------- 2.7
STEP 6: Print a Demo Page! ---------- 2.7
STEP 7: Install the Printer Software ---------- 2.8
Installing USB driver in Windows ---------- 2.13

Chapter 3 Using Control Panel

Control Panel Buttons ---------- 3.1
Control Panel Lights ---------- 3.3

Chapter 4 Print Media

Choosing Paper and Other Media ---------- 4.1
Selecting the Output Location ---------- 4.4
Loading Paper ---------- 4.5
Printing on Envelopes ---------- 4.7
Printing on Heavy Paper ---------- 4.9
Printing on Labels ---------- 4.10
Printing on Transparencies ---------- 4.11
Printing on Preprinted Paper ---------- 4.12
Printing on Card Stocks ---------- 4.13

Chapter 5 Printing Tasks

Printing a Document ---------- 5.1
Using Toner Save Mode ---------- 5.6
Printing Multiple Pages on One Sheet of Paper ------- 5.7
Fitting a Document to a selected Paper Size --------- 5.8
Printing Posters ---------- 5.9
Setting Graphic Properties ---------- 5.11
Printing Watermarks ---------- 5.13
Using Page Overlay ---------- 5.16
Reprinting the Last Page ---------- 5.20
Printing in a Network Environment ---------- 5.21

Chapter 6 Maintaining Your Printer

Maintaining the Toner Cartridge ---------- 6.1
Cleaning the Printer ---------- 6.4

Chapter 7 Problem Solving

Troubleshooting Checklist ---------- 7.1
Solving General Printing Problems ---------- 7.2
Clearing Paper Jams ---------- 7.6
Solving Print Quality Problems ---------- 7.11
Troubleshooting Error Messages ---------- 7.17
Common Windows Problems ---------- 7.20
Common Macintosh Problems ---------- 7.21
Common Linux Problems ---------- 7.22

Appendix

Printer Specifications ---------- A.1
Paper Specifications ---------- A.2
Using Your Printer with Macintosh ---------- A.10
Using Printer in Linux ---------- A.17

INDEX

Environmental and Safety Consideration

Laser Safety Statement

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR, chapter 1 Subchapter J for Class I(1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 825.

Class I laser products are not considered to be hazardous. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance, or prescribed service condition.

WARNING

Never operate or service the printer with the protective cover removed from Laser/Scanner assembly. The reflected beam, although invisible, can damage your eyes.



CAUTION - INVISIBLE LASER RADIATION WHEN THIS COVER OPEN. DO NOT OPEN THIS COVER.

VORSICHT - UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

ATTENTION - RAYONNEMENT LASER INVISIBLE EN CAS D'OUVERTURE.EXPOSITION DAN GEREUSE AU FAISCEAU.

ATTENZIONE -RADIAZIONE LASER INVISIBILE IN CASO DI APERTURA. EVITARE L'ESPOSIZIONE AL FASCIO.

PRECAUCION -RADIACION LASER IVISIBLE CUANDO SE ABRE. EVITAR EXPONERSE AL RAYO.

ADVARSEL. - USYNLIG LASERSTRÅLNING VED ÅBNING NÅR SIKKERHEDSBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLNING.

ADVARSEL. - USYNLIG LASERSTRÅLNING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN. UNNGÅ EKSPONERING FOR STRÅLEN.

VARNING - OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPAND OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN. STRÅLEN ÄR FARLIG.

VARO! - AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE ÄLÄ KATSO SÄTEESEEN.



Caution! Hot Surface. Avoid Contract.

Ozone Safety



During normal operation, the Samsung ML-1430 Series printer produces ozone. The ozone produced does not present a hazard to the operator. However, it is advisable that the machine be operated in a well ventilated area.

If you need additional information about ozone, please request your nearest Samsung dealer.

Power Saver



This printer contains advanced energy conservation technology that reduces power consumption when it is not in active use.

When the printer does not receive data for an extended period of time, power consumption is automatically lowered.

The energy star emblem does not represent EPA endorsement of any product or service.

Radio Frequency Emissions

Fcc Regulations

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you must first stop operation of the equipment.

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of FCC Rules.

CAUTION: Changes or modifications not expressly approved by the manufacture responsible for compliance could void the user's authority to operate the equipment.

Canadian Radio Interference Regulations

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Industry and Science Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", ICES-003 édictée par l'Industrie et Sciences Canada.

Declaration of Conformity (European Countries)
Approvals and Certifications

CE

The CE marking applied to this product symbolises Samsung Electronics Co., Ltd. Declaration of Conformity with the following applicable 93/68/EEC Directives of the European Union as of the dates indicated:

January 1, 1995: Council Directive 73/23/EEC Approximation of the laws of the member states related to low voltage equipment.

January 1, 1996: Council Directive 89/336/EEC (92/31/EEC), approximation of the laws of the Member States related to electromagnetic compatibility.

March 9, 1999: Council Directive 1999/5/EC on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.

A full declaration, defining the relevant Directives and referenced standards can be obtained from your Samsung Electronics Co., Ltd. representative.

EC Certification

Certification to 1999/5/EC Radio Equipment & Telecommunications Terminal Equipment Directive (FAX)

This Samsung product has been self-certified by Samsung for pan-European single terminal connection to the analogue public switched telephone network (PSTN) in accordance with Directive 1999/5/EC. The product has been designed to work with the national PSTNs and compatible PBXs of the European countries:

In the event of problems, you should contact the Euro QA Lab of Samsung Electronics Co., Ltd. in the first instance.

The product has been tested against TBR21 and TBR 38. To assist in the use and application of terminal equipment which complies with this standard, the European Telecommunication Standards Institute (ETSI) has issued an advisory document (EG 201 121) which contains notes and additional requirements to ensure network compatibility of TBR21 terminals. The product has been designed against, and is fully compliant with, all of the relevant advisory notes contained in this document.

CHAPTER 1

Introduction

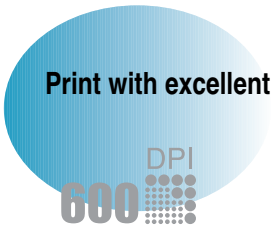
Congratulations on the purchase of Samsung ML-1430 Series printer! This chapter provides information on the following topics:

- ♦ Special Features
- ♦ Printer Components

Special Features

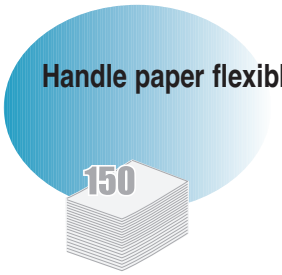
Samsung ML-1430 Series is a versatile, productive printer equipped with special features that improve print quality, giving you a competitive edge. You can:

Print with excellent quality and high speed



- You can print at **600 dots per inch** (dpi). See page 5.11.
- Your printer prints **14 pages-per-minute(A4 size), 15 pages-per-minute(Letter size)**.

Handle paper flexibly



- Standard **150-sheet automatic input tray** and a **1-sheet manual input tray** support various sizes and types of paper.
- Two output locations: Select either **the face-down output tray** or **the face-up output slot** for the most convenient access.

Save your time and money



- You can use **Toner Save** mode to use less toner. See page 5.6.
- Print multiple pages on a single sheet of paper to save paper (**N-up printing**). See page 5.7.
- One-touch last page printing is allowed in the Ready mode. See page 5.20.
- The printer automatically **conserves electricity** by substantially reducing power consumption when not printing.
- This product meets **Energy Star** guidelines for energy efficiency.

Create professional documents



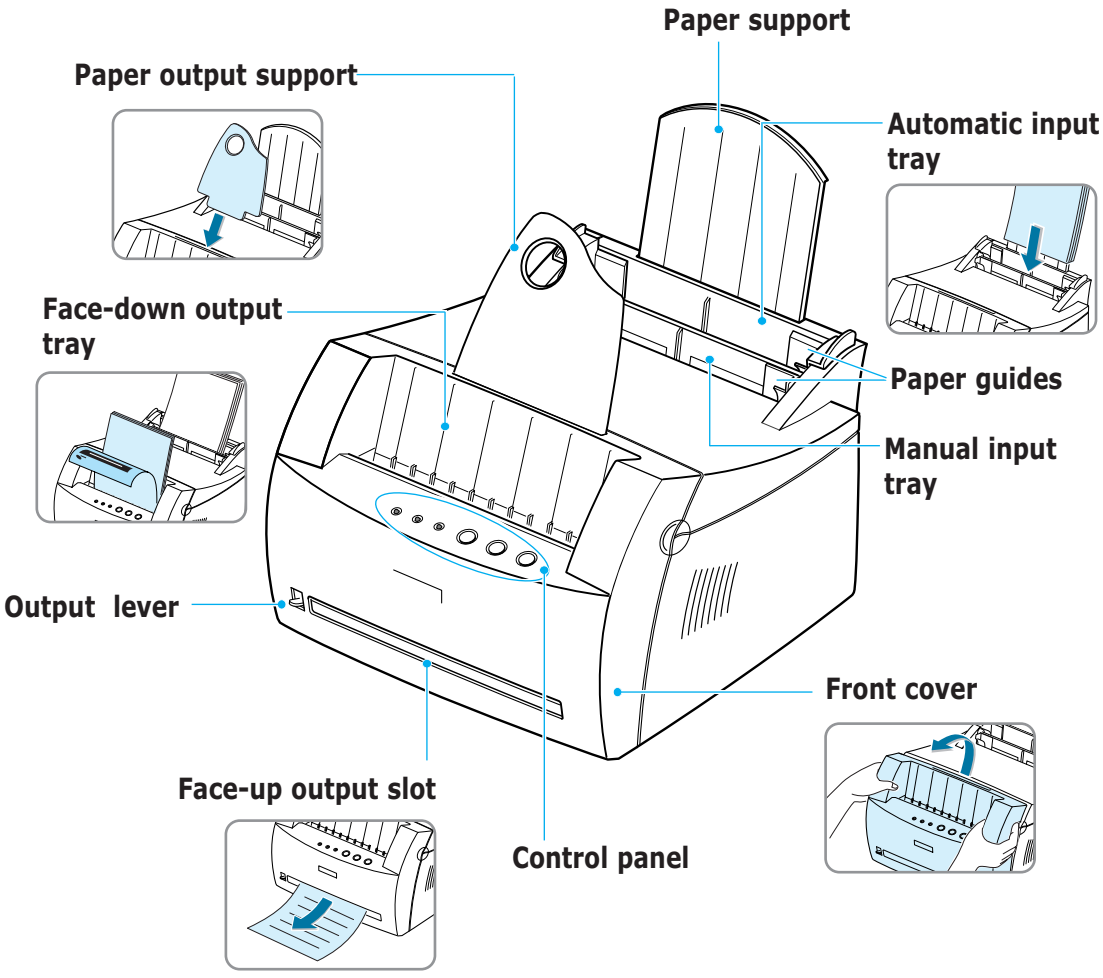
- You can customize your documents by using **Watermarks** such as "Confidential." See page 5.13.
- Preprinted forms and letterheads can be printed on plain paper. See page 5.16.
- Print **Posters**. The text and pictures of each page of your document are magnified and printed across the selected sheet of paper. After the document has printed, trim off the white edges of each sheet. Tape the sheets together to form a poster. See page 5.9.

Print in various environments

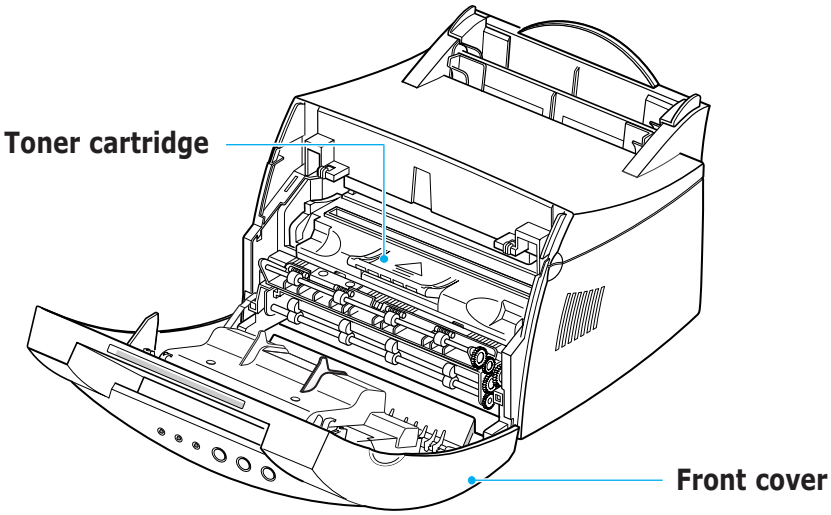
- You can print in **Windows 95/98/Me/NT 4.0/2000/XP**.
- Your printer is compatible with **Linux** and **Macintosh**.
- The ML-1430 Series printer comes with both **Parallel** and **USB** interfaces.

Printer Components

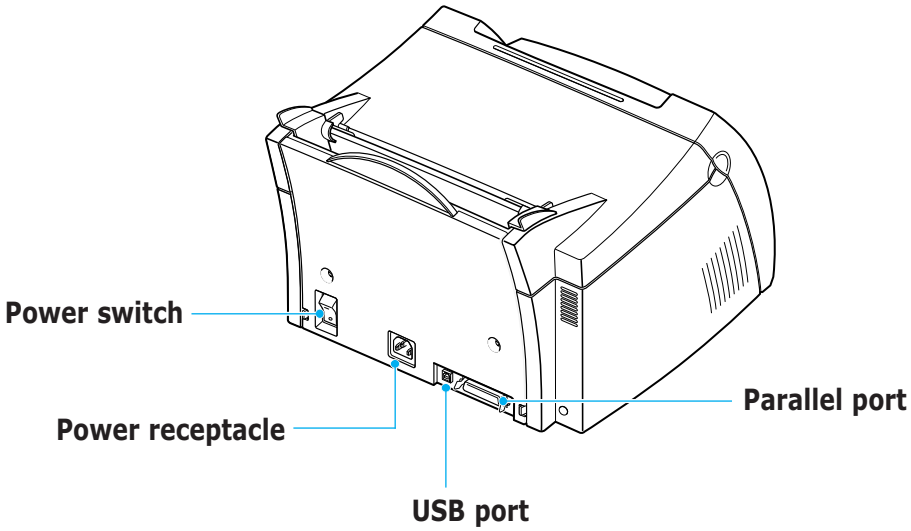
Front View



Inside View



Rear View



Memo

CHAPTER 2

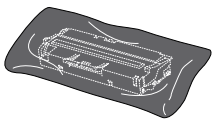
Setting Up Your Printer

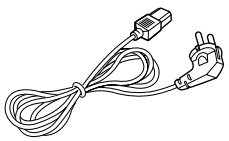
This chapter provides step by step information on setting up your printer. Topics included in this chapter are:

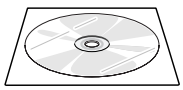
- ***STEP 1*:** Unpack Your Printer
- ***STEP 2*:** Install the Toner Cartridge
- ***STEP 3*:** Load Paper
- ***STEP 4*:** Connect to the Computer with a Parallel Cable
- ***STEP 5*:** Turn on the Printer
- ***STEP 6*:** Print a Demo Page!
- ***STEP 7*:** Install the Printer Software
  Installing USB driver in Windows

STEP 1 Unpack Your Printer

1 Remove the printer and all accessories from the packing carton. Make sure that your printer has been packed with the following items:


Toner cartridge


Power cord


CD-ROM

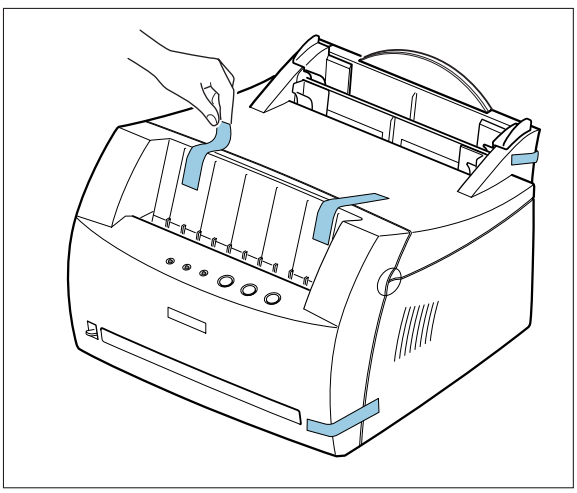

Paper Output Support


Setup Guide

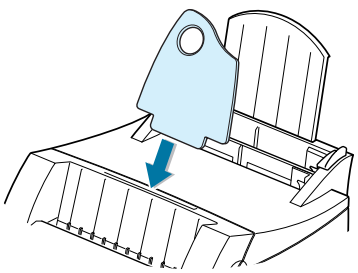
Notes:

- If any items are missing or damaged, notify your dealer immediately.
- **Components may differ from one country to another.**
- The CD-ROM contains the printer driver, the User's Guide, the Adobe Acrobat Reader program.

2 Carefully remove all packing tapes from the printer.



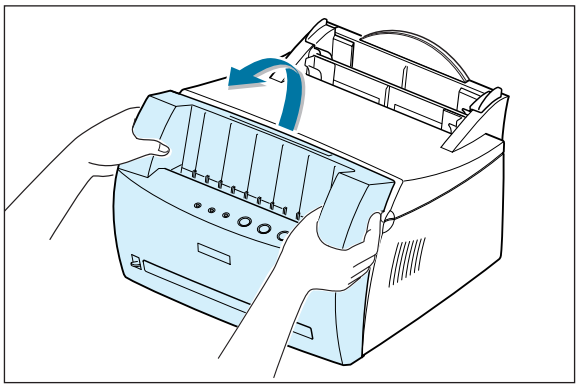
3 Attach the supplied paper output support as shown.



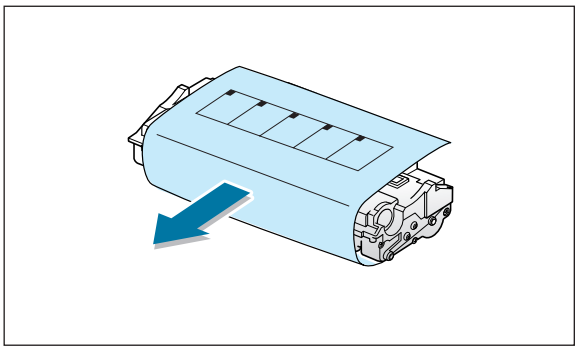
STEP 2

Install the Toner Cartridge

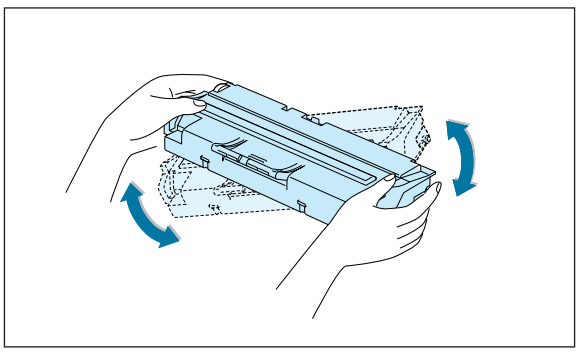
1 Grasp the front cover by both sides of the cover and pull it toward you to open.



2 Remove the toner cartridge from its bag and remove the paper covering the toner cartridge completely out of the cartridge. Discard the paper.



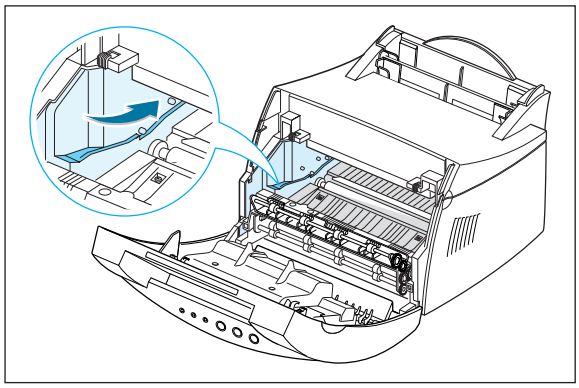
3 Gently shake the cartridge from side to side to distribute the toner evenly inside the cartridge.



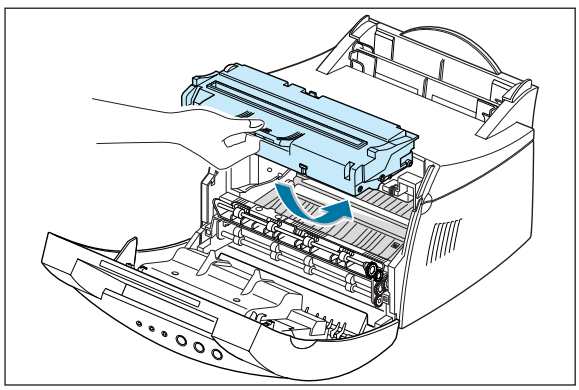
CAUTION:
To prevent damage, do not expose the toner cartridge to light for more than a few minutes. Cover it with a piece of paper, if left exposed for more than a few minutes.

If toner gets on your clothing, wipe it off with a dry cloth and wash clothing in cold water. **Hot water sets toner into fabric.**

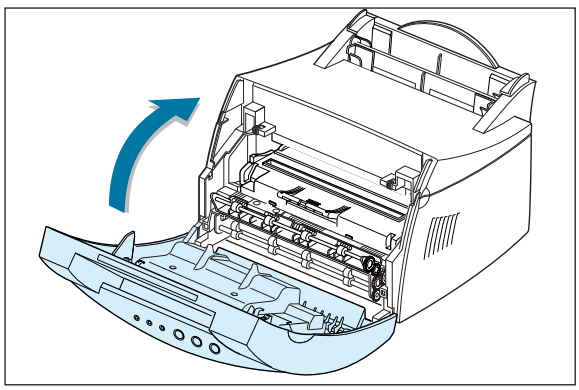
4 Locate the cartridge slots inside the printer, one on each side.



5 Grasp the handle and insert the cartridge in the printer until it snaps into place.



6 Close the front cover. Make sure that the cover is securely closed.

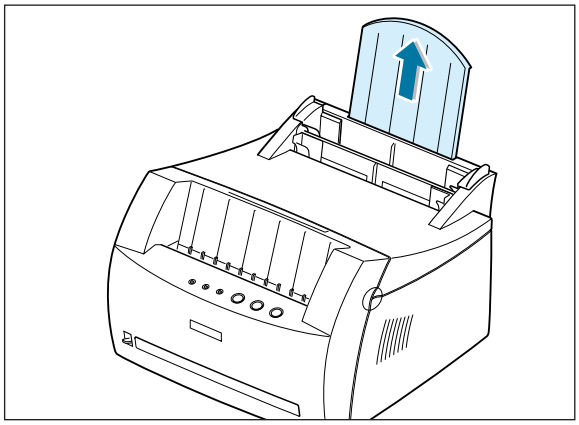


Note: When printing text at 5% coverage, you can expect a toner cartridge life of approximately 2,500 pages (1,000 pages for the toner cartridge that is shipped with the printer).

STEP 3

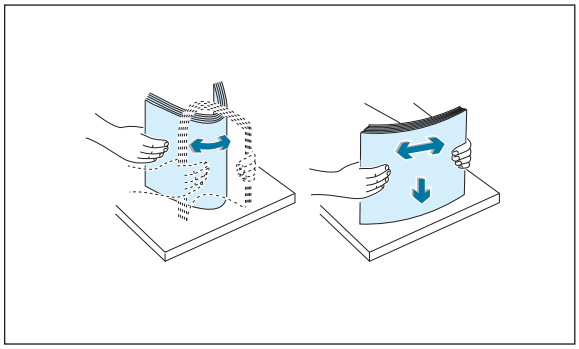
Loading Paper

1 Pull the paper support on the automatic input tray up, until it stops.

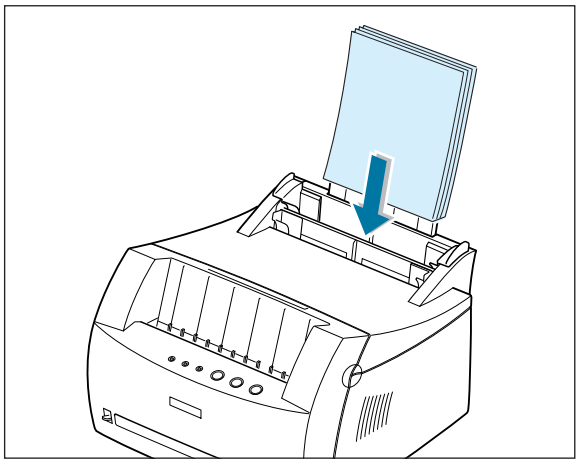


2 Before loading the paper, flex the sheets back and forth to loosen them, then fan them.

Tap the edges of the stack on a table top to straighten them to prevent paper jams.

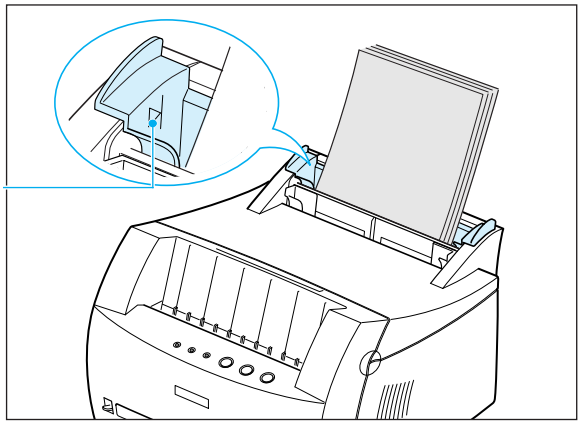


3 Load a stack of paper into the automatic input tray **with the print side facing up**.

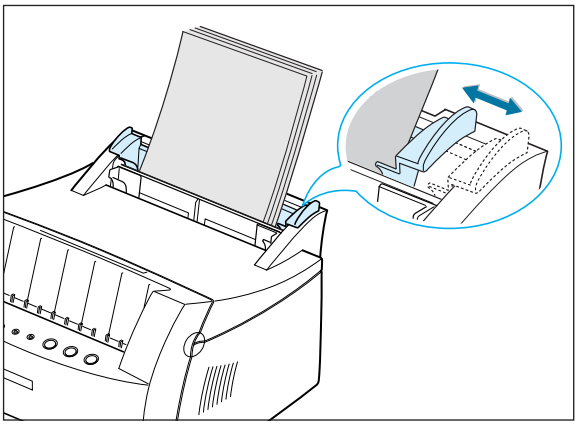


4 Do not load too much. This tray holds up to 150 sheets.

Keep the paper below this height mark.



5 Adjust the paper guides to the width of the paper stack.



Notes:

- Do not push the width guide far enough to cause the media to warp.
- If you do not adjust the width guide, it may cause paper jam.
- If you are needed to add more sheets of paper while printing, remove the remaining paper from the tray at first. Then, reinsert them with the new paper. Note that adding new paper into the remains in the tray may cause paper jams or multiple feeding.

STEP 4

Connect to the Computer with a Parallel Cable

Note: To connect the printer to the parallel port of the computer requires a certified parallel cable.
You will need to buy the IEEE1284 compliant cable.

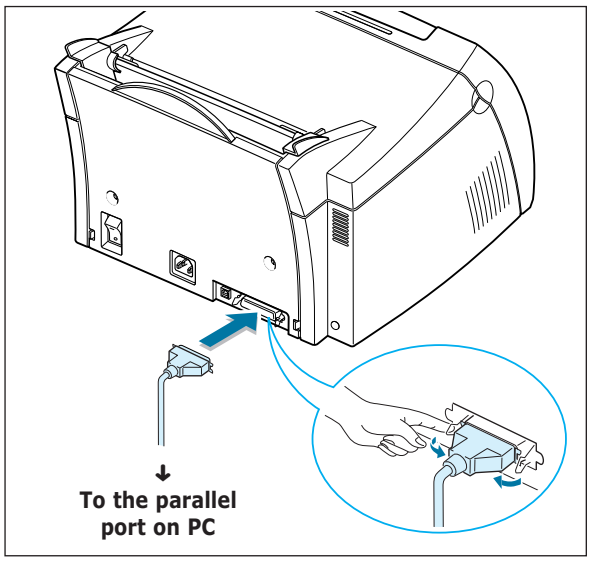
1 Make sure both the printer and the computer are turned off.

2 Plug the parallel printer cable into the connector on the back of the printer.

Push the metal clips down to fit inside the notches on the cable plug.

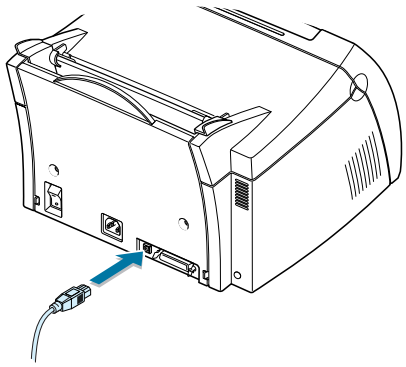
3 Connect the other end of the cable to the parallel interface port on your computer, and tighten the screws.

See your computer documentation if you need help.



If you are using a USB interface

Go to "Installing USB driver in Windows" on page 2.13.

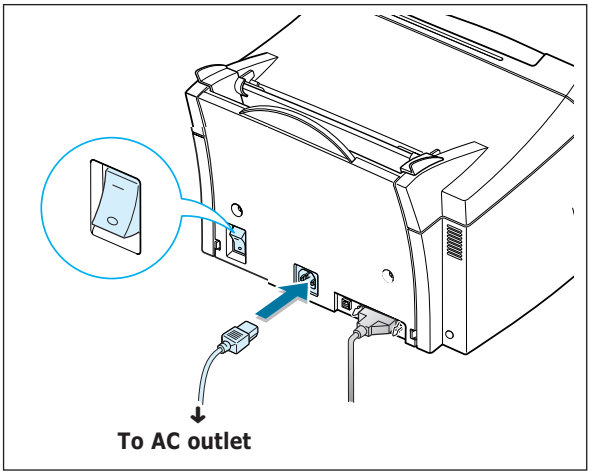


STEP 5 Turn on the Printer

1 Plug the power cord into the power receptacle on the back of the printer.

2 Plug the other end into a properly grounded AC outlet.

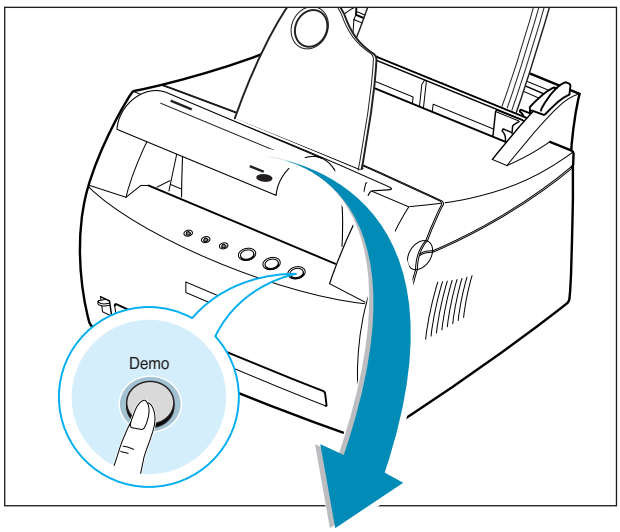
3 Turn on the power.



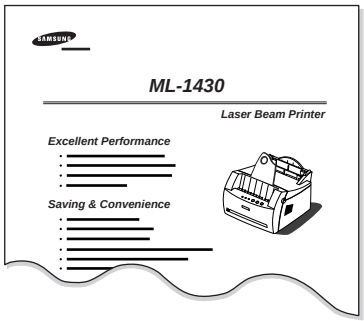
STEP 6 Print a Demo Page!

As the printer powers up, all the printer control panel lights turn on briefly. When only the **Data** light remains on, press and hold the **Demo** button.

Hold down the button for about 2 seconds until all lights blink slowly, then release, the demo page will print.



The demo page provides a sample of the print quality and helps you verify the printer is printing correctly.



STEP 7

Install the Printer Software

Included with your printer is a CD-ROM containing the printer driver for some of the most popular Windows software applications. To operate your printer, you must install a printer driver, which translates data from your application into data that the printer understands.

If you are printing with a parallel interface

Go to page 2.9 for information on installing the print software on a computer that is attached directly to the printer with a parallel cable.

If you are printing with a USB interface

Go to "Installing USB driver in Windows" on page 2.13, for information on installing the print software on a USB-enabled computer.

If you are printing from Macintosh

Go to "Using Your Printer with a Macintosh" on page A.10, for information on installing the print software and printing from Macintosh.

If you are printing in Linux

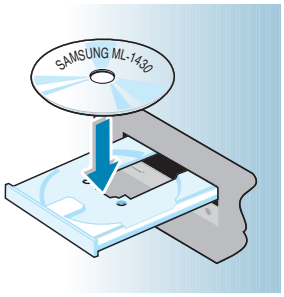
Go to "Using Printer in Linux" on page A.17, for information on installing the Linux driver.

Before Installing the Printer Software

Verify the following:

- At least **32 MB(Windows 9x/Me/NT), 128 MB(Windows 2000/XP) or more of RAM** is installed on your PC.
- There is at least **200 MB of free disk space** on your PC.
- **All applications are closed on your PC before beginning installation**.
- Windows 95, Windows 98, Windows Me, Windows NT 4.0, Windows 2000 or Windows XP.

Installing the Printer Software from the CD-ROM



Note: If the New Hardware Found box appears during the installation procedure, click the [X] in the upper right corner of the box, or click **Cancel**.

1 Place the CD-ROM in the CD-ROM drive. Installation will start automatically.

If the CD-ROM drive does not automatically run:

Select **Run** from the **Start** menu, and type **x:\cdsetup.exe** in the Open box (where **x** is the drive letter for the CD-ROM drive), then click **OK**.

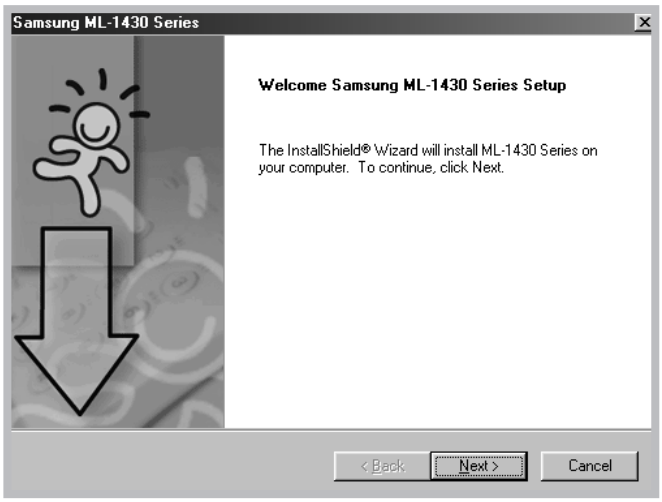


2 When the opening screen appears, select the appropriate language.

3 Click **Install the Samsung Software on your PC**.

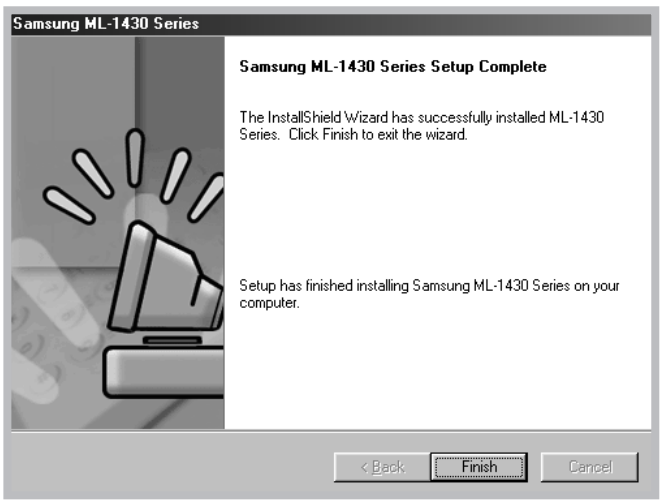


4 The Welcome window opens. Click **Next**.



5 The files are copied into the appropriate directory.

6 Click **Finish**.



Software Installation Tips

How do I access printer features ?

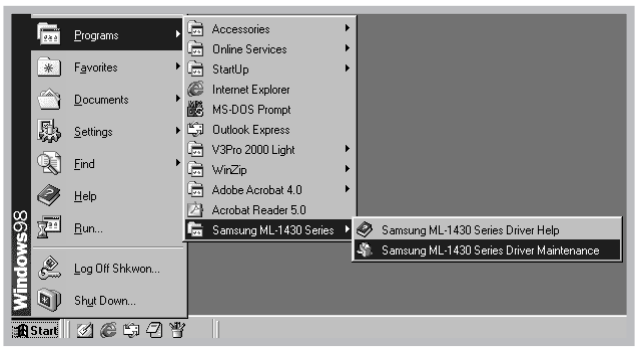
Some printer features, such as paper size and page orientation, may be available through your application settings. Use application settings, if available, because they override printer driver settings.

Access advanced printer features through your printer driver. See the chapter 5, "Printing Tasks" for instructions on using your printer driver features.

How do I remove the printing software ?

In Windows, after installation, the Uninstall icon in the Samsung ML-1430 Series program group allows you to select and remove any or all of the Samsung ML-1430 Series printing system components. If you are upgrading the printer driver, or if your installation fails, uninstall the driver doing as the following instructions.

1. From the **Start** menu, select **Programs**.
2. Select **Samsung ML-1430 Series**, and then **Samsung ML-1430 Series Driver Maintenance**.



3. The Samsung ML-1430 Series Driver Maintenance dialog box appears. Check **Remove** and then click **Next**.
4. When you are asked to confirm your selection, click **OK**.
5. The Samsung ML-1430 Series printer driver and all of its components are removed from your computer.
6. Click **Finish**.

If you have installing problems

- Exit your software programs. Then turn off the computer and the printer. Turn on the printer, then turn on the computer.
- Close any virus protection programs that are running on your computer.
- If you fail the installation, you will have to reinstall.
  1. From the **Start** menu, select **Programs**.
  2. Select **Samsung ML-1430 Series**, and then **Samsung ML-1430 Series Driver Maintenance.**
  3. The Samsung ML-1430 Series Driver Maintenance dialog box appears. Check **Repair** and then click **Next**.
  4. When you finish reinstallation, click **Finish**.

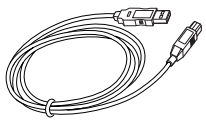
Can I use this printer in the other OS?

The Samsung ML-1430 Series Printer supports the Linux system. Go to "Using Printer in Linux" on page A.17 for information on installing the Linux driver.

Installing USB driver in Windows

If you have a USB (Universal Serial Bus) port enabled on your computer, and if your computer is running Windows 98/Me/2000/XP, you can connect your printer to the USB chain of devices.

Note: Connecting the printer to the USB port of the computer requires a certified USB cable. You will need to buy the USB 1.0 or 1.1 compliant cable.

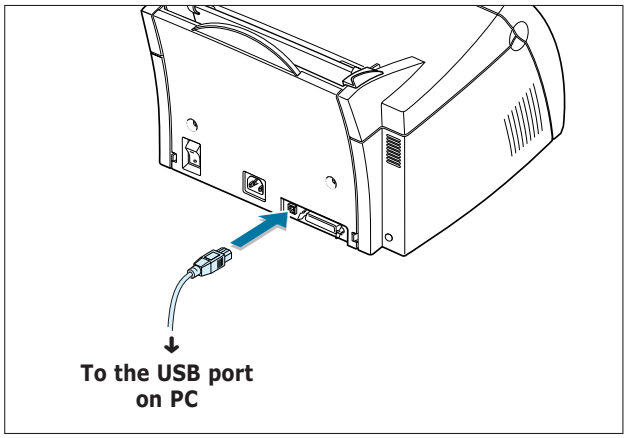


Installing USB driver in Windows 98/Me

1. Connect printer with USB cable and install USB driver

1 Make sure that both the printer and computer are turned **ON**.

2 Plug one end of the USB cable into the USB port on the printer.



3 Plug the other end into the USB port on the computer.

4 The Add New Hardware Wizard dialog box appears. Click **Next**.



5 Check **Search for the best driver for your device** and click **Next**.



6 Check **CD-ROM drive** and click **Browse**, then choose **D:\USB** (where **D** is the drive letter for the CD-ROM drive). Click **Next**.



7 Click **Next**. The USB driver will be installed.



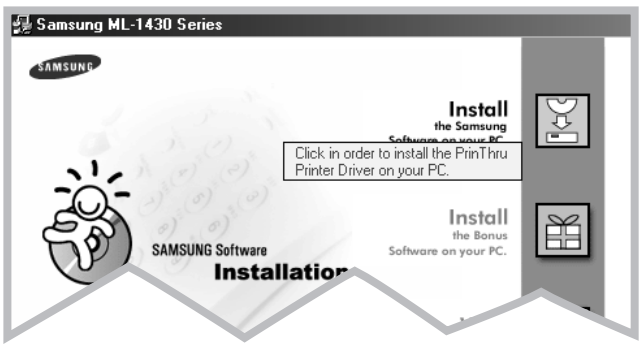
8 Click **Finish**.



9 When the opening screen appears, select the appropriate language.

Note: If you already installed the printer driver, the **International Setup Version** screen doesn't appear.

10 Click **Install the Samsung Software on your PC**.



Follow the instructions on the screen to complete the installation. For more details, see page 2.9.

Notes:

- If you want to use your printer with the Parallel cable, remove the USB cable and connect the Parallel cable. Then reinstall the printer driver.
- If your printer doesn't work properly, reinstall the printer driver.

Installing USB driver in Windows 2000/XP

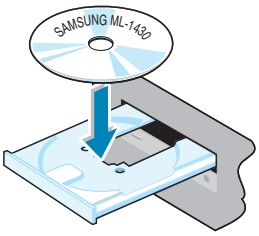
1. Connecting USB

Connect your printer with the USB cable.
For the information on connecting the cable, see page 2.13.

2. Installing USB driver

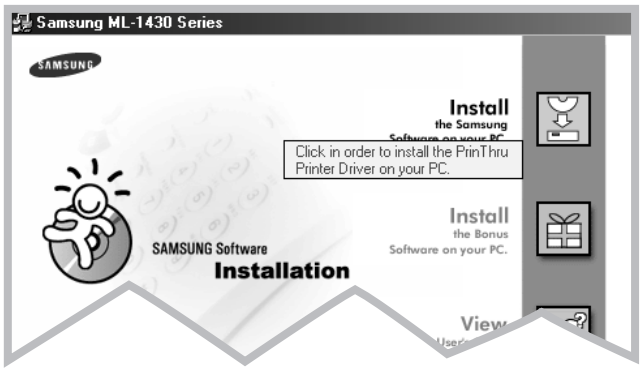
The New Hardware Found dialog box appears.
Click **Cancel**, and insert the supplied CD-ROM into your CD-ROM drive.

Note: All applications must be closed on your PC before beginning installation.



1 When the opening screen appears, select the appropriate language.

2 Click **Install the Samsung Software on your PC**.



Follow the instructions on the screen to complete the installation. For more details, see page 2.9.

Notes:

- If you want to use your printer with the Parallel cable, remove the USB cable and connect the Parallel cable. Then reinstall the printer driver.
- If your printer doesn't work properly, reinstall the printer driver.

Frequently Asked Questions About USB

Q What is USB?

A

Universal Serial Bus (USB) makes it easy to connect devices to your computer without having to open the PC. USB uses a standard port and plug combination for connecting devices like printers, modems, scanners, and digital cameras. It also offers the benefit of being able to add, remove, and move devices.

Because USB is a relatively new technology, we recommended using a parallel printing connection. However, USB is an option to customers who want to print from Windows 98/Me/2000/XP across the USB cable. If your computer's USB port is enabled and properly setup, you can connect your printer via a USB cable.

Q How can I determine if my computer's USB port is enabled?

A

1. In Windows 98/Me, select **Start** → **Settings** → **Control Panel**.
2. Double-click the **System** icon.
3. Click the **Device Manager** tab.
4. Click the plus (+) icon before the **Universal Serial Bus Controller** item.

If you see a USB host controller and a USB root hub listed, then the USB is properly enabled. If you have multiple hubs on the USB chain, try connecting your printer to a different hub or to another USB device. Also, insure the cable connections are firm. (USB hubs are hardware devices into which you can plug multiple USB cables.)

If you do not see these devices listed, refer to your computer's documentation or contact the manufacturer for more information on enabling and setting up the USB. Remember, you can also use a parallel cable to connect your printer's parallel port to your computer. (If you decide to switch to a parallel cable connection, you may need to remove and reinstall the printer software.)

Q Can other users on my USB chain print to my ML-1430 Series printer on the USB chain?

A Yes. Windows 98/Me/2000/XP allows you to "share" your printer using software settings on your computer. After others on the USB chain have installed the printer software for your specific printer, they can print to your shared printer.

Q After I install my printer, why isn't my ML-1430 Series printer assigned to an LPT printer port in the Print dialog box of my software application?

A USB uses a different naming convention for USB devices. After the printer has been installed, you see **SSUSB:(your printer name)** instead of **LPT**.

Q How can I increase printing speed and quality?

A When operated on a USB chain, your printer may print slower if other USB devices are being used while you're printing. For optimal print performance, avoid using other devices in the USB chain while printing.

CHAPTER 3

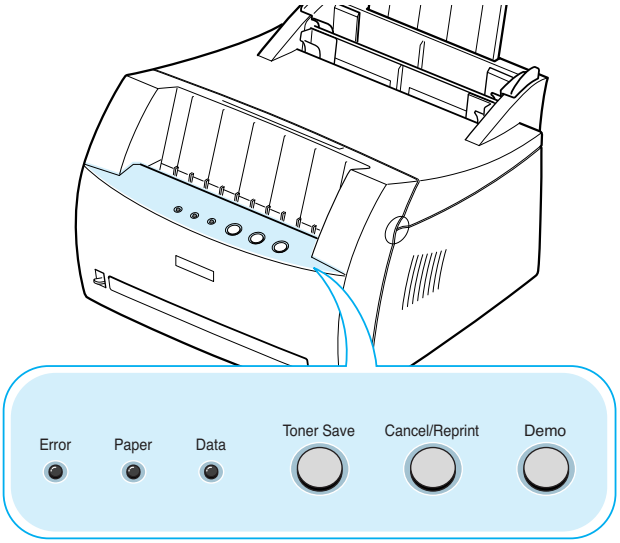
Using the Control Panel

This chapter describes how to use the printer's control panel. It provides information on the following topics:

- Control Panel Buttons
- Control Panel Lights

Control Panel Buttons

The printer has three buttons: **Toner Save**, **Cancel/Reprint** and **Demo**.



Demo



Print demo page

Press and hold **Demo** for about 2 seconds until the control panel lights blink slowly to print a demo page. The printer must be in the Ready mode.

Start manual feeding

When you select **Manual** for **Paper Source** from your software application, you should press **Demo** each time you load a sheet of paper manually. For further information, see "Using the Manual Input tray" on page 4.5.

Clean the inside of the printer

Press and hold **Demo** for about 10 seconds until the control panel lights remain lit. After cleaning the printer, one cleaning sheet prints. For further information, see page 6.5.

Cancel/Reprint



Cancel job

Press **Cancel/Reprint** and hold until the control panel lights blink to cancel a job the printer is currently printing. The **Error** light will blink while the print job is cleared from both the printer and the computer, and then return to the Ready mode. This may take some time, depending on the size of the print job.

Note: If the **Cancel/Reprint** button is accidentally pushed, the job must be reprinted. There is no undo function.

Reprint last page of the job

If you press **Cancel/Reprint** in the Ready mode, the printer prints the last page of the last print job. See page 5.20.

Toner Save



(on)

Toner Save



(off)

Turn the Toner Save Mode on/off

Press **Toner Save** to turn the Toner save mode on or off. The printer must be in the Ready mode.

- If the button backlight is on, toner save mode activates and the printer uses less toner to print a document.
- If the button backlight is off, toner save mode is disabled and you will print in normal quality.

To enable or disable the Toner Save mode using this button, the **Toner Save Mode** option in the printer driver must be set to **Printer Setting**.

For further information on the Toner Save mode, see page 5.6.

Control Panel Lights

The control panel lights indicate the status of your printer. If the **Error** light is on, the printer is experiencing an error. See "Troubleshooting Error Messages" on page 7.17.

Control Panel Light Message



Ready mode

The **Data** light is on and the printer is ready to print.

No action is needed. If you press and hold the **Demo** button for about 2 seconds, a demo page will print.



Processing

The printer is receiving or processing data. Wait for the job to print.

Pressing the **Cancel/Reprint** button cancels the current job. One or two pages may print as the printer clears the print job. The printer will return to the Ready mode after the job has been canceled.



Paper out

The printer is out of paper.

Load paper into the printer. For the automatic tray, there is no need to press any button to reset. For the manual tray, press the **Demo** button after loading.



Waiting the Demo button to be pressed

In the Manual Feed mode, the printer is waiting the **Demo** button to be pressed.

Press the **Demo** button to start printing. You must press the button to print each page after loading paper into the manual input tray.

CHAPTER 4

Print Media

This chapter will help you understand the types of paper you can use with the Samsung ML-1430 Series printer and how to properly load paper in the input trays for the best print quality.

Topics included in this chapter are:

- Choosing Paper and Other Media
- Selecting the Output Location
- Loading Paper
- Printing on Envelopes
- Printing on Heavy Paper
- Printing on Labels
- Printing on Transparencies
- Printing on Preprinted Paper
- Printing on Card Stocks

Choosing Paper and Other Media

You can print on a variety of print media, including plain paper, envelopes, labels, transparencies and card stock. See "Paper Specifications" on page A.2. For the best possible print quality, use only high-quality copier-grade paper.

When you choose print media, consider the following:

- **Desired outcome**: The paper you choose should be appropriate for the project.
- **Size**: You can use any size paper that fits easily within the adjusters of the paper tray.
- **Weight** : Your printer supports the following paper weights:
  - 16~24 lb bond for the automatic input tray
  - 16~43 lb bond for the manual input tray
- **Brightness**: Some paper is whiter than others and produces sharper, more vibrant images.
- **Surface smoothness**: The smoothness of the paper affects how crisp the printing appears on paper.

CAUTION: Using media that does not conform to the specifications listed in this section can cause problems that may require service. This service is not covered by the warranty or service agreement.

Media Sizes and Capacities

Media Size	Input Source/Capacity[1]	
	Automatic Input Tray	Manual Input Tray
Plain Paper		
Letter (8.5 x 11 in.)	150	1
Legal (8.5 x 14 in.)	150	1
Executive (7.25 x 10.5 in.)	150	1
A4 (210 x 297 mm)	150	1
A5 (148 x 210 mm)	150	1
A6 (105 x 148 mm)	50	1
Folio (8.5 x 13 in.)	150	1
B5 (182 x 257 mm)	–	1
Envelopes		
No. 10 (4.12 x 9.5 in.)	5	1
DL (110 x 220 mm)	5	1
C5 (162 x 229 mm)	5	1
C6 (114 x 162 mm)	5	1
B5 (176 x 250 mm)	5	1
Monarch (3.87 x 7.5 in.)	5	1
Labels		
Letter (8.5 x 11 in.)	5	1
A4 (210 x 297 mm)	5	1
Transparency film		
Letter (8.5 x 11 in.)	5	1
A4 (210 x 297 mm)	5	1
Card stock	5	1
Bond Paper	5	1
Thin Paper[2] (12 lb ~ 16 lb)	150	1
Thick Paper (24 lb ~ 43 lb)	5	1

[1] Depending on paper thickness, maximum capacity may be reduced.

[2] Thin Paper Mode is selected in case of the 16lb paper such as Georgia Pacific 16lb, Boise cascade 16lb or less than 16lb paper and 16lb cotton paper such as Fox river 16lb.

Paper Guidelines

When selecting or loading paper, envelopes, or other special media, keep these guidelines in mind:

- Attempting to print on damp, curled, wrinkled, or torn paper can **cause paper jams** and poor print quality.
- **Use** cut-sheet paper **only**. You cannot use multiply forms.
- **Use only** high-quality, copier grade paper.
- **Do not** use paper that has been printed on or that has been fed through a photocopier.
- **Do not** use paper with irregularities, such as tabs or staples.
- **Do not** attempt to overload the tray during printing.
- **Avoid** paper with embossed lettering, perforations, or texture that is too smooth or rough.
- Colored paper should be of the same high quality as white photocopy paper. The pigments must withstand the printer's fusing temperature of 400°F (205°C) for 0.1 second without deterioration. **Do not** use paper with a colored coating that was added after the paper was produced.
- Preprinted forms must be printed with nonflammable, heat-resistant inks that do not melt, vaporize, or release hazardous emissions when subject to the printer's fusing temperature.
- Store paper in its ream wrapper until ready for use. Place cartons on pallets or shelves, not on the floor.
- **Do not** place heavy objects on top of the paper, whether it is packaged or unpackaged.
- **Keep** paper away from moisture, direct sunlight or other conditions that can cause wrinkle or curl.

Selecting the Output Location

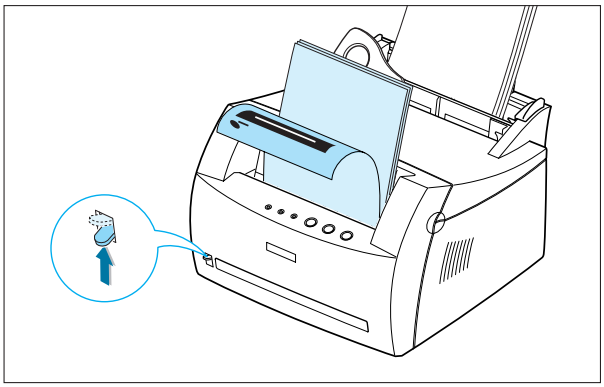
The printer has two output locations: the **face-up output slot** and the **face-down output tray**. You can select the output location by changing the position of the output lever on the front of the printer. To use the face-down output tray, be sure the output lever is in upper (normal) position. To use the face-up output slot, push the output lever down.

- If paper coming out of the face-down output tray has problems, such as excessive curl, **try printing to the face-up output slot**.
- To avoid paper jams, **do not change the position of the output lever** while printing.

Printing to the Face-Down Output Tray

The face-down output tray collects paper in **face-down** order. To use, make sure the output lever is in the upper position. (If it is not, push it up)

The face-down output tray should be used for most print jobs and is recommended when printing large jobs.

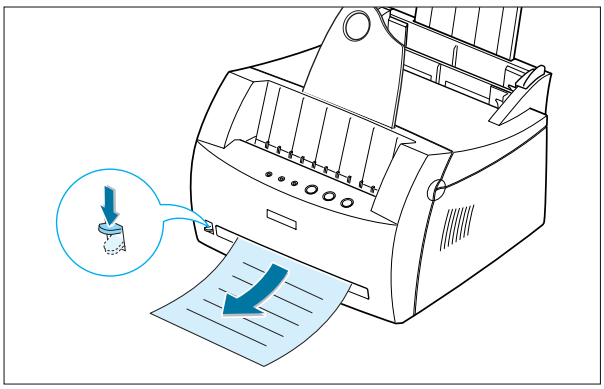


Printing to the Face-Up Output Slot

The printer prints to the face-up output slot if open. Push the output lever down to open the slot. Paper will come out of the printer **face-up**.

Using the face-up output slot might improve output quality with the following:

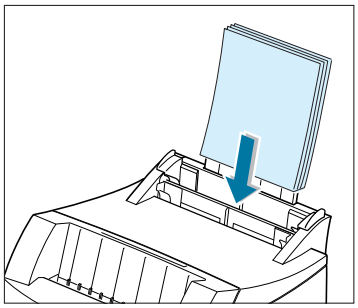
- envelopes
- labels
- Transparency films
- paper heavier than 24 lb (90 g/m^2)



Loading Paper

Proper paper loading helps prevent paper jams and insures trouble-free printing. **Do not** remove paper from the tray(s) while a job is printing. Doing so may cause a paper jam.

Using the Automatic Input Tray



The automatic input tray holds 150 sheets of paper and five sheets of special media. See "Media Sizes and Capacities" on page 4.2 for acceptable paper size and capacities for each input tray.

Load a stack of paper into the automatic input tray and print. For details on loading paper in the automatic input tray, see "Loading Paper" on page 2.4.

Note: Before using the automatic input tray, you must remove the paper from the manual input tray.

4

Using the Manual Input Tray

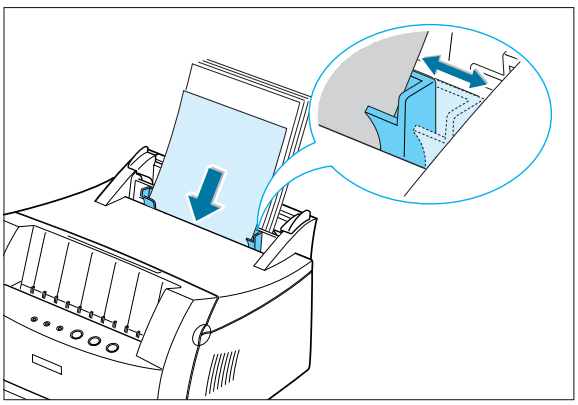
If you select **Manual** in the **Paper Source** option, you can manually load paper in the manual input tray. Manually loading paper can be helpful when you want to check the print quality after each page is printed.

If you experience a paper jam from the automatic input tray, load one sheet of paper at a time into the manual input tray.

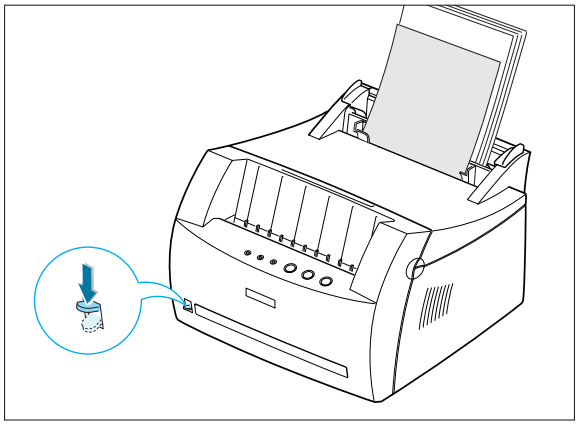
Note: To avoid a paper jam, use the manual tray with the automatic input tray loaded with paper.

1 Load the print media in the manual input tray **with the print side up**.

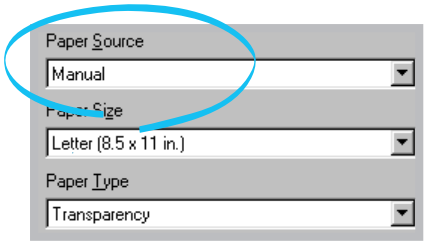
Adjust the paper guide against the stack of print media without bending the stack.



2 Push the output lever down to open the face-up output slot.



3 When you print a document, you must select **Manual** for **Paper Source** from the software application, and then select the correct paper size and type. For details, see page 5.3.

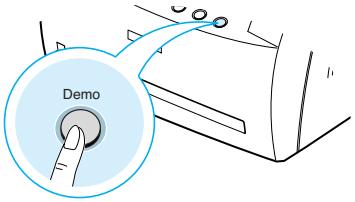


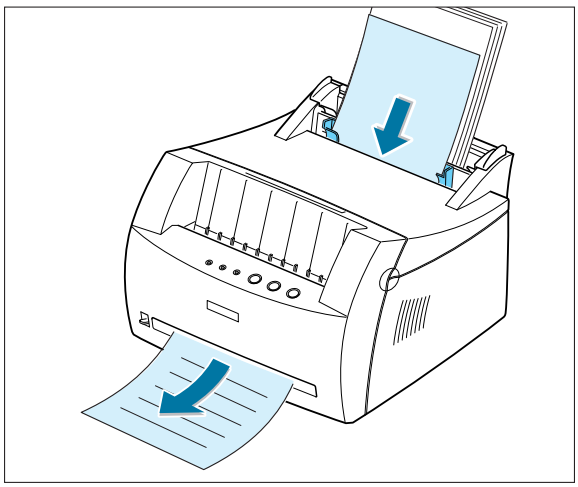
4 Press **Demo** to start feeding.

5 Print the document.

6 If you are printing multiple pages, load the next sheet after the first page prints out.

7 Press **Demo** to start feeding.





Notes:

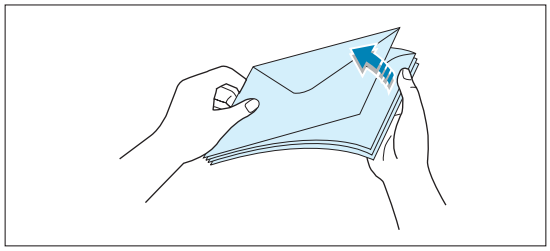
- The face-up output slot may not hold the printed pages properly.
- The printed pages will not stack in the face-down output tray unless you change output lever position. After you finish using the face-up output slot, you must change the position of the output lever to the normal position by pushing it up.

Printing on Envelopes

Guidelines

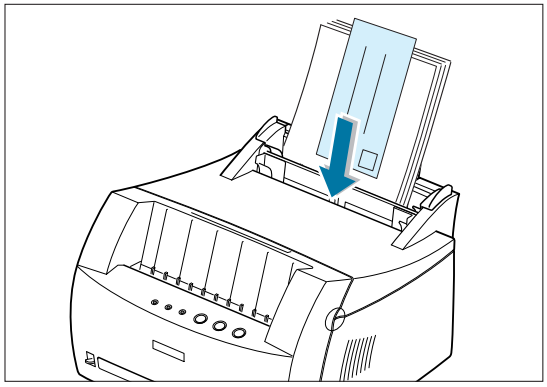
- Only use envelopes recommended for laser printers. Before you load envelopes in the input tray, make sure that they are undamaged and are not stuck together.
- Do not feed stamped envelopes.
- Never use envelopes with clasps, snaps, windows, coated lining, or self-stick adhesives as these envelopes may severely damage the printer.

1 Flex or fan the envelopes before loading.

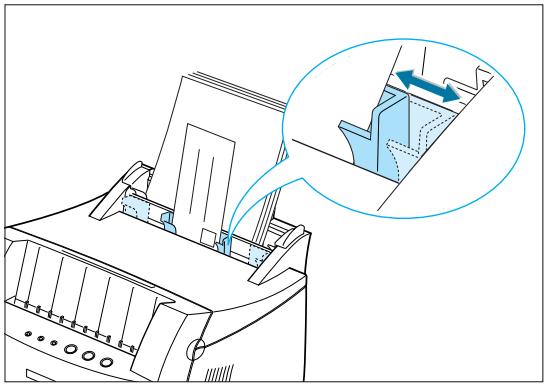


2 Load the envelopes into the input tray **with the flap side down**.

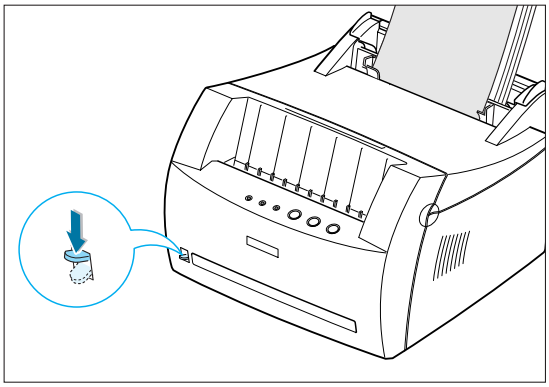
The stamp area is **on the right side** and the end of the envelope **with the stamp area enters the tray first**.



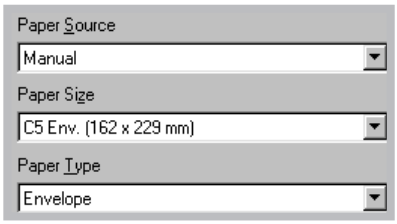
3 Adjust the guide to the edge of the envelope stack.



4 Push the output lever down.



5 When you print on envelopes, configure the paper source, type and size properly in the software application. For details, see page 5.3.

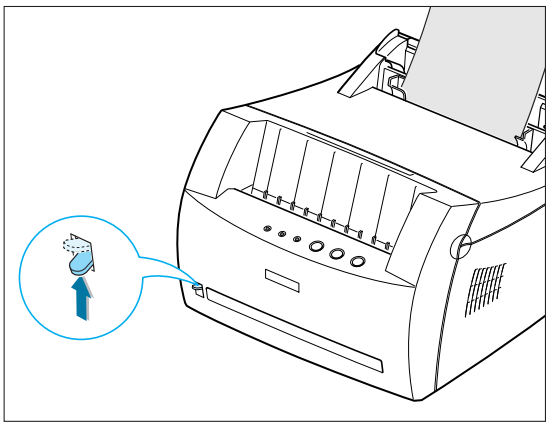


6 Press **Demo** to start feeding.

Note: If you select Auto Select in the Paper Source and load the envelope one by one, you need not press the Demo button.

7 Print the document.

8 After printing, push the output lever up.



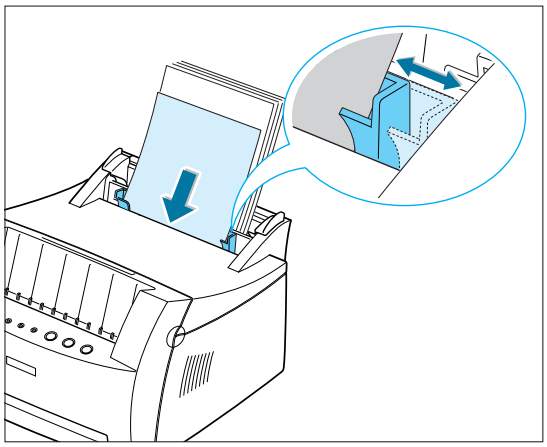
Printing on Heavy Paper

Guidelines

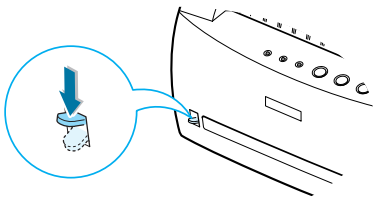
- Heavy paper is any paper heavier than 24 lb (90 g/m^2). For cotton papers, you can use 24 lb paper. The maximum paper weight available for your printer is 43 lb (163g/m^2).
- Do not use extremely heavy paper stock (greater than 43 lb, or 163 g/m^2 bond). Misfeeds, mis-stacking, media jams, poor toner fusing, poor print quality, and excessive mechanical wear can result.

1 Load paper in the input tray **with the print side up**.

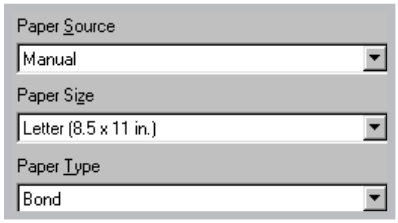
Adjust the guide to fit the width of the labels.



2 Push the output lever down.



3 When you print on heavy paper, select **Bond** in the Paper Type section, and then configure the paper source, and size in the software application. For details, see page 5.3.



4 Press **Demo** to start feeding.

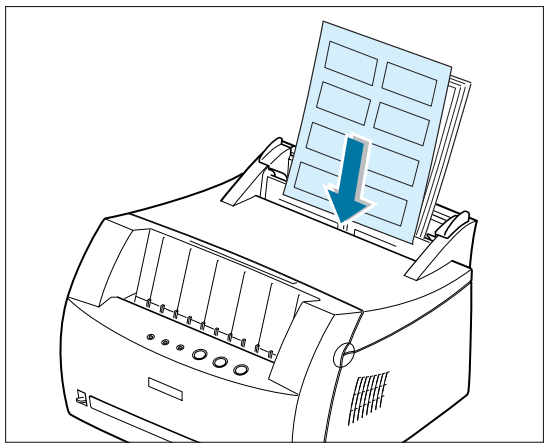
Printing on Labels

Guidelines

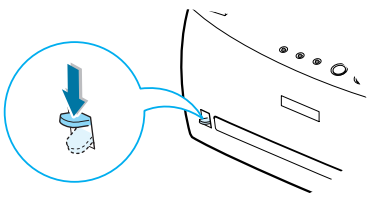
- Only use labels recommended for laser printers.
- Verify that the labels' adhesive material can tolerate a fusing temperature of 200°C (392°F) for 0.1 second.
- Make sure that there is no exposed adhesive material between the labels. Exposed areas can cause labels to peel off during printing, cause paper jams. Exposed adhesive can also cause damage to printer components.
- Do not feed a sheet of labels through the printer more than once. The adhesive backing is designed for one pass through the printer.
- Do not use labels that are separating from the backing sheet or are wrinkled, bubbled, or otherwise damaged.

1 Load labels in the input tray **with print side up**.

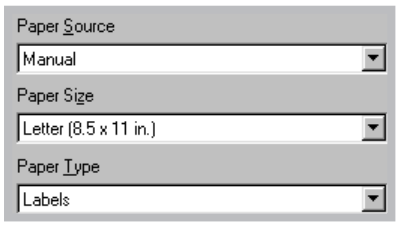
Adjust the guide to fit the width of the labels.



2 Push the output lever down.



3 To print on labels, configure the paper source, type and size in the software application. For details, see page 5.3.



4 Press **Demo** to start feeding.

Note: To prevent labels from sticking, do not let the printed label sheets stack up as they are printed out.

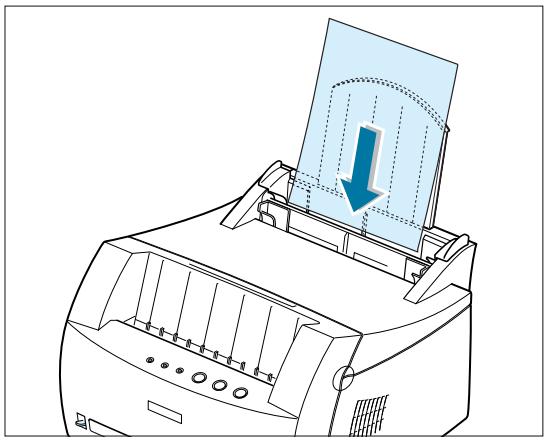
Printing on Transparencies

Guidelines

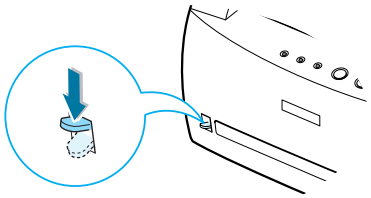
- Only use transparencies recommended for use in laser printers.
- Insure transparencies are not wrinkled, curled, or have any torn edges.
- Hold the transparencies by the edges and avoid touching the print side. Oils deposited on the transparency can cause print quality problems.
- Be careful not to scratch or leave fingerprints on the print side.

1 Load transparencies in the input tray **with print side up**, and **the top with the adhesive strip going first**.

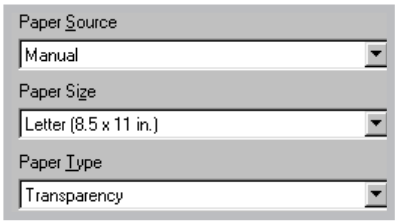
Adjust the guide to fit the width of the transparencies.



2 Push the output lever down.



3 To print on transparencies, configure the paper source, type and size in the software application. For details, see page 5.3.



4 Press **Demo** to start feeding.

Notes:

- To prevent transparencies from sticking, do not let the printed sheets stack up as they are printed out.
- Place transparencies on a flat surface after removing them from the printer.

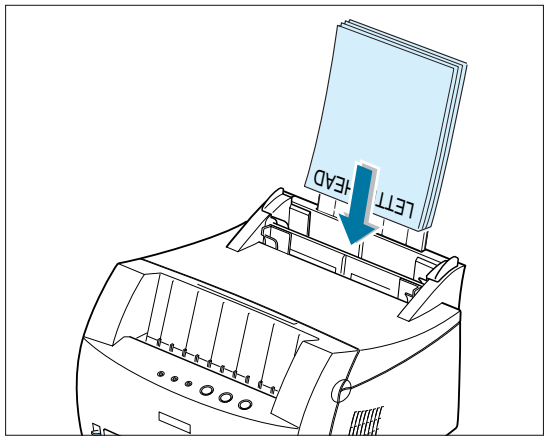
Printing on Preprinted Paper

Guidelines

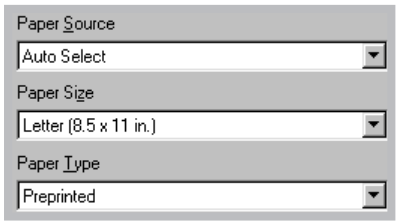
- Letterhead must be printed with heat-resistant ink that will not melt, vaporize, or release hazardous emissions when subjected to the printer's fusing temperature of 400°F (205°C) for 0.1 second.
- Ink on letterhead must be non-flammable and should not adversely affect any printer rollers.
- Forms and letterhead should be sealed in moisture-proof wrapping to prevent changes during storage.
- Before loading preprinted paper as forms and letterhead, verify that the ink on the paper is dry. During the fusing process, wet ink can come off preprinted paper.

1 Load letterhead into the input tray **with the design face up, bottom edge toward the printer**.

Adjust the guide to fit the width of the paper stack.



2 To print on preprinted paper, configure the paper source, type and size in the software application. For details, see page 5.3.



Printing on Card Stocks

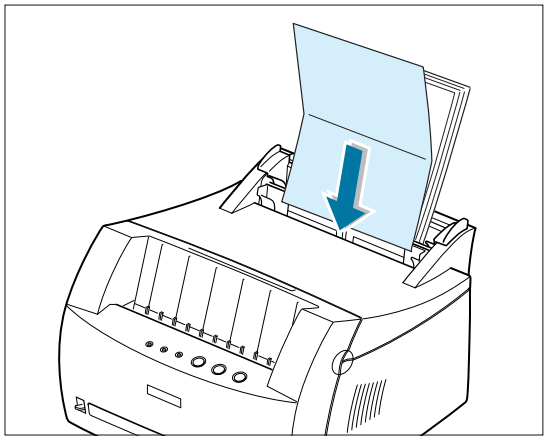
Postcards, 3″ X 5″ index cards can be printed with the Samsung ML-1430 Series printer.

Guidelines

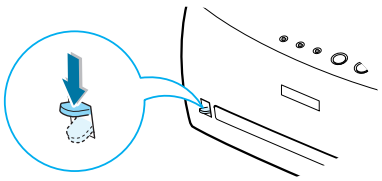
- Insert the short-edge first into the input tray. To print in landscape mode, make this selection through the software. Inserting paper long-edge first may cause a paper jam.
- Do not print on card stock that is too small or too large. The minimum size is 76 X 127 mm (3″ X 5″) for the manual input tray and 95 X 127 mm (3.8″ X 5″) for the automatic input tray, and the maximum size is 216 X 356 mm (8.5″ X 14″).
- Set margins at least 6.4 mm (0.25 in.) away from the edges of the media in the software application.

1 Load print media in the input tray **with print side up**, **short edge first** .

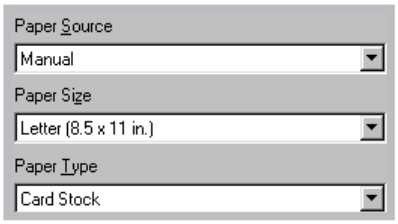
Adjust the guide to fit the width of the media.



2 Push the output lever down.



3 Configure the paper source, type in the printer driver's properties (see page 5.3) and print.



4 Press **Demo** to start feeding.

CHAPTER 5

Printing Tasks

This chapter explains the printing options and common printing tasks.

Topics included in this chapter are:

- Printing a Document
- Using Toner Save Mode
- Printing Multiple Pages on One Sheet of Paper (N-Up Printing)
- Fitting a Document to a Selected Paper Size
- Printing Posters
- Setting Graphic Properties
- Printing Watermarks
- Using Page Overlay
- Reprinting the Last Page
- Printing in a Network Environment

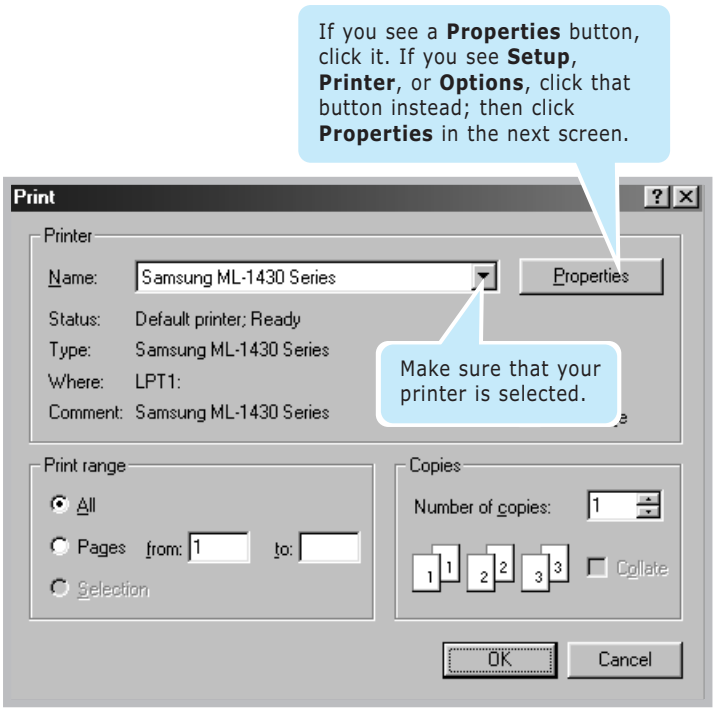
Printing a Document

This procedure describes the steps required for printing from various Windows applications. The exact steps for printing a document may vary depending upon the application program. Refer to your software application's documentation for the exact printing procedure.

1 Open the document to print.

2 Select **Print** from the **File** menu. The Print dialog box is displayed (the Print dialog box for your application may look slightly different).

The basic print settings are selected within the Print dialog box. These settings include the number of copies, paper size, and page orientation.



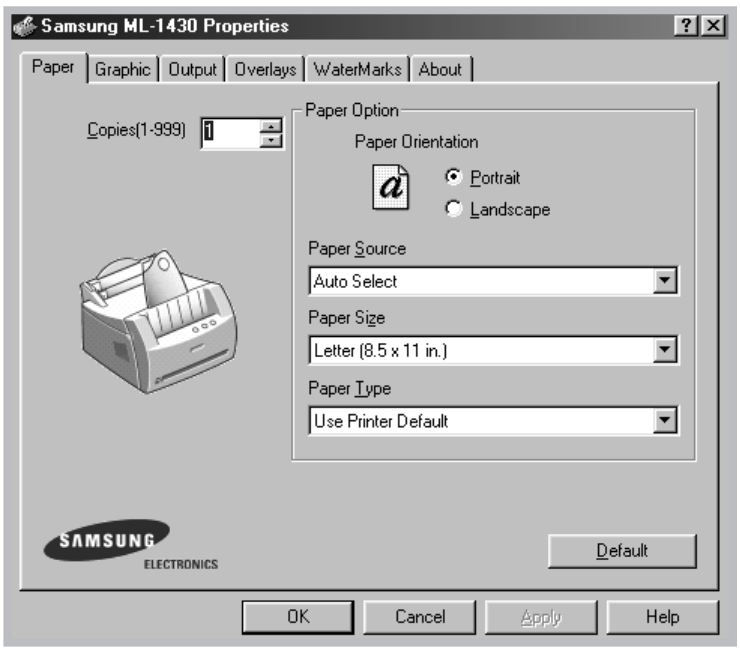
5

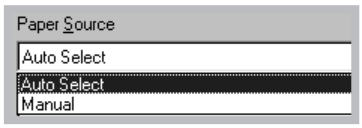
3 To take advantage of the printer features, click **Properties** in the application's print dialog box and go to step 4.

If you see **Setup**, **Printer**, or **Options**, click that button instead. Then click **Properties** in the next screen.

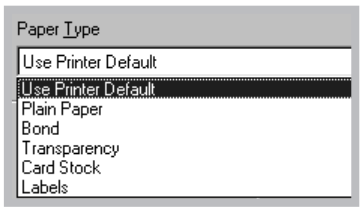
4 The Properties dialog box allows you to access and change printer settings.

If necessary, click the **Paper** tab to display the settings shown below. The **Paper** tab allows you to change the settings for basic paper handling.



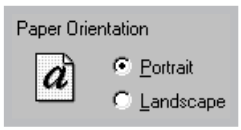


Select **Auto Select** from the **Paper Source** options box unless you are printing with special media. To print with special media, select **Manual** and feed one sheet at a time into the printer. See page 4.5.

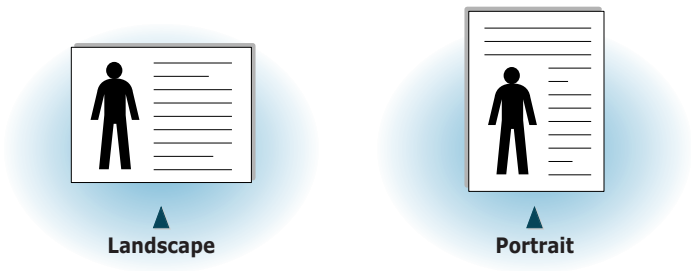


Select **Use Printer Default** from the **Paper Type** options box unless you want to use a different kind of print media. To use a different kind of media, select the corresponding print media name in the **Paper Type** options box. For more information, refer to Chapter 4 'Print Media'.

Select the paper size you have loaded in your printer.



The **Paper Orientation** option allows you to select the direction in which information is printed on a page. **Portrait** prints across the width of the page, letter style. **Landscape** prints across the length of the page, spreadsheet style.



You can also see the printable area.

5 Click the other tabs on the top of the Properties dialog box to access other features.

6 When you complete the print settings, click **OK** until the Print dialog box is displayed.

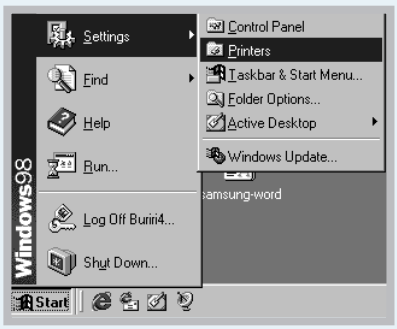
7 Click **OK** to start printing.

Notes:

- Most Windows applications will override settings you specify in the printer driver. Change all print settings available in the software application first, then change any remaining settings using the printer driver.
- The settings you change remain in effect only while you are using the current program. **To make your changes permanent**, make them in the Printers folder as follows:

  1. Click the Windows **Start** button.

  2. Select **Settings**, then **Printers** to open the Printers window. (Windows 9x/Me/2000)
     Select **Printers and Faxes**. (Windows XP)



  3. Select the **Samsung ML-1430 Series** printer icon.

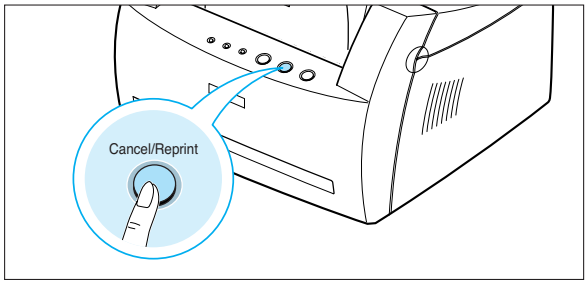
  4. Click the right mouse button and select **Properties** to open the properties window. (Windows 9x/Me)
     Click the right mouse button and select **Document Defaults** to open the document defaults window. (Windows NT)
     Click the right mouse button and select **Printing Preferences** to open the printing preferences window. (Windows 2000/XP)

Canceling a Print Job

There are two ways to cancel a print job.

To stop a print job from your printer

Press the **Cancel/Reprint** button and hold until the control panel lights blink to cancel a job the printer is currently printing.

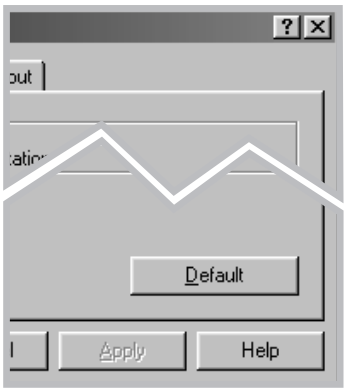


The printer will finish printing the page and delete the rest of the print job while the **Error** light is blinking. Pressing **Cancel/Reprint** cancels only the current job in the printer. If more than one print job is in the printer memory, **Cancel/Reprint** must be pressed once for each job.

To stop a print job from the Printers folder

1. From the **Start** menu, select **Settings**.
2. Select **Printers** to open the Printers window, then double-click the **Samsung ML-1430 Series** icon.
3. From the **Document** menu, select **Cancel Printing** (Windows 9x/Me) or **Cancel** (Windows NT 4.0/2000/XP).

Using Help



The Samsung ML-1430 Series printer has a help screen that can be activated by the **Help** button in the printer's properties dialog box. You can also click [?] from the upper right hand corner, and then click on any setting.

These help screens give detailed information regarding the printer features provided by the Samsung ML-1430 Series printer driver.

To restore the default printer properties setting when you change the print settings, click **Default** in the Samsung ML-1430 Series Properties dialog box.

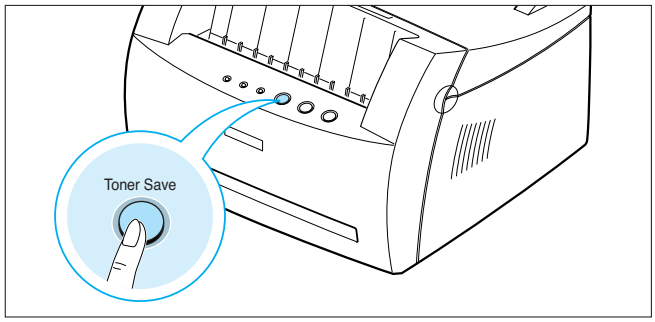
Using Toner Save Mode

Toner Save mode allows the printer to use less toner on each page. Selecting this option will extend the life of your toner cartridge and reduce your cost per page without a significant reduction in print quality.

There are two ways to enable the Toner Save mode:

To enable this feature from your printer

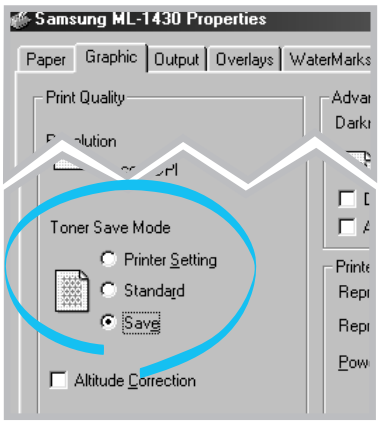
Press the **Toner Save** button on the control panel. The printer must be in Ready mode (**Data** light is on).



- If the button backlight is on, toner save mode activates and the printer uses less toner to print a page.
- If the button backlight is off, toner save mode is disabled and the printer prints in a normal mode.

Note: To enable or disable the Toner Save mode from the control panel, the **Toner Save Mode** option in the printer driver must be set to **Printer Setting**. See below.

To enable this feature from the software application

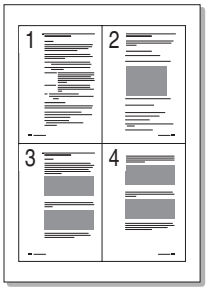


1 To change the print settings from your software application, access the printer properties. See page 5.1 to access the printer properties.

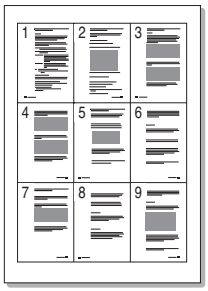
2 Click the **Graphic** tab, and select the **Toner Save Mode** option. You have the following options:
- **Printer Setting**: If you select this option, this feature is determined by the setting you've made on the control panel of the printer.
- **Standard**: If you don't need to save toner to print a document, select this option.
- **Save**: Select this option to allow the printer to use less toner on each page.

3 Click **OK**.

Printing Multiple Pages on One Sheet of Paper (N-Up Printing)



▲ 4 pages per sheet



▲ 9 pages per sheet

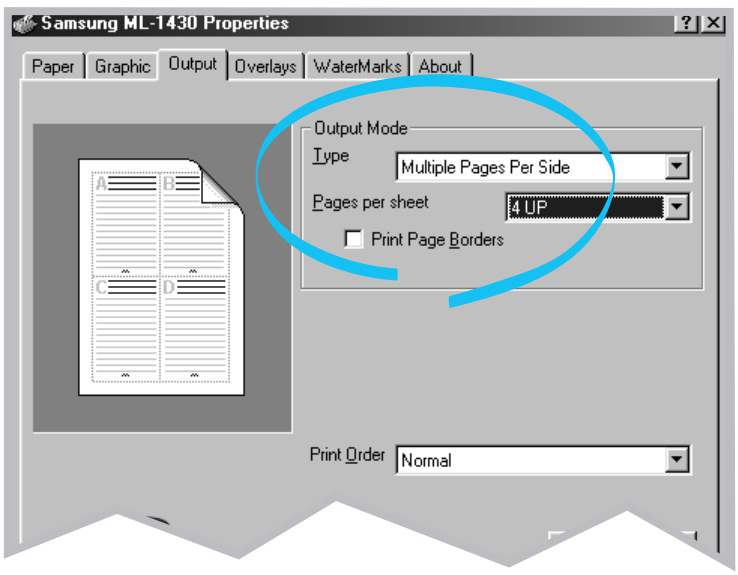
You can select the number of pages to print on a single sheet of paper. To print more than one page per sheet, the pages will appear decreased in size and arranged on the sheet. You can print up to 16 pages on one sheet.

1 To change the print settings from your software application, access the printer properties. See page 5.1 to access the printer properties.

From the **Paper** tab, select the paper orientation, source, size and type.

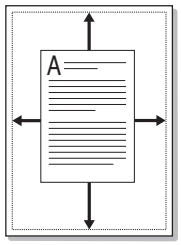
2 Click the **Output** tab, and choose **Multiple Pages Per Side** in the **Type** drop-down list. Then select the number of pages you want to print per sheet (1, 2, 4, 9 or 16) in the **Pages per sheet** drop-down list.

3 Click **Print Page Borders** to print a border around each page on the sheet. **Print Page Borders** is enabled only if the **Pages per sheet** is 2, 4, 9, or 16.



4 Click **OK** to start printing.

Fitting a Document To a Selected Paper Size

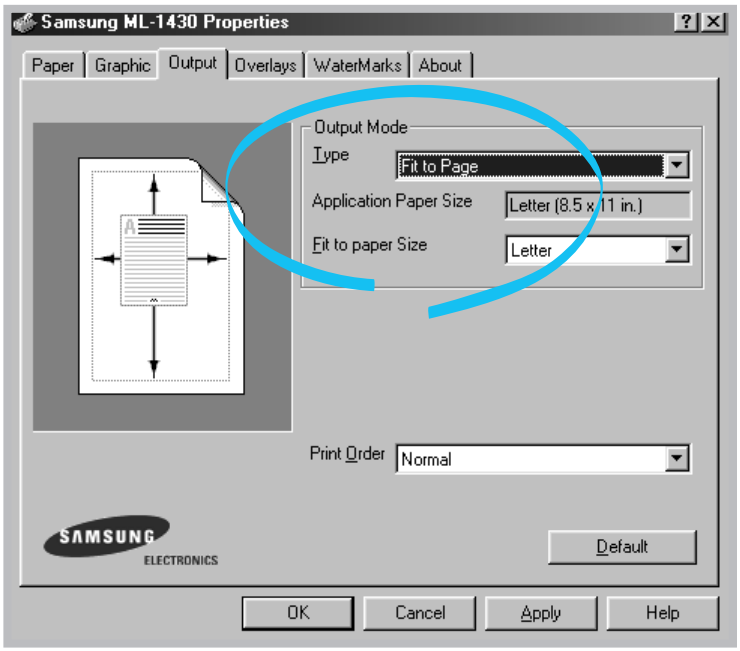


This feature allows you to scale your print job to any selected paper size regardless of the digital document size. This can be useful for checking fine details on a small document.

1 To change the print settings from your software application, access the printer properties. See page 5.1 to access the printer properties.

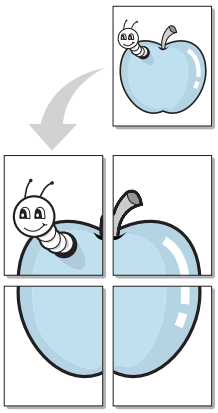
2 Click the **Output** tab, and select **Fit to Page** in the **Type** drop-down list.

3 You'll see the **Application Page Size** and be prompted to select the **Fit to paper Size**. Select the correct size from the drop-down list.



4 Click **OK** to start printing.

Printing Posters



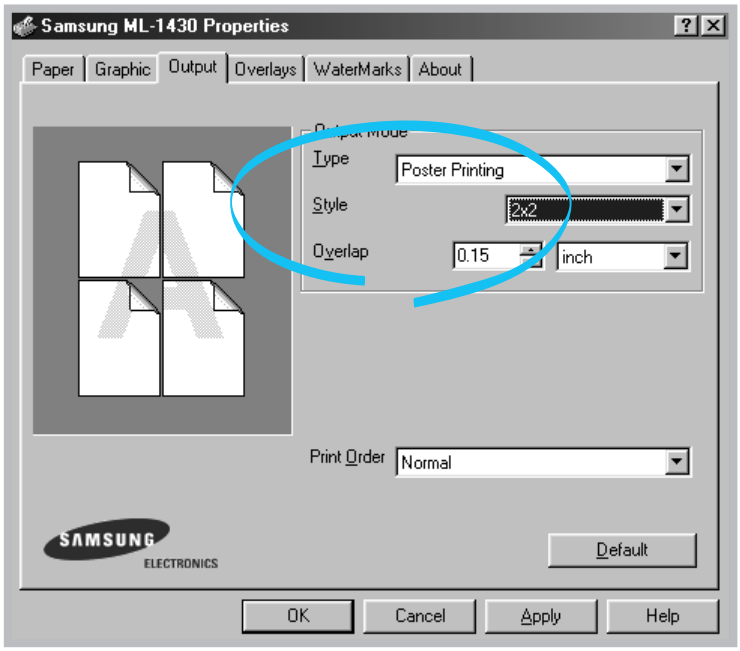
Poster printing
with 2x2 style

Poster printing allows you to print a single-page document onto 4, 9, or 16 sheets of paper, which can be pasted together to form one poster-size document.

1 To change the print settings from your software application, access the printer properties. See page 5.1 to access the printer properties.

From the **Paper** tab, select the paper orientation, source, size and type.

2 Click the **Output** tab, and select **Poster Printing** in the **Type** drop-down list.

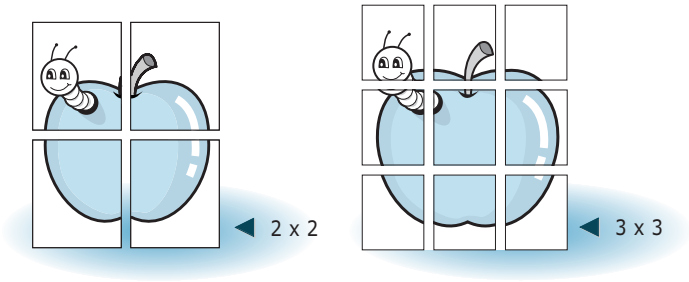


5

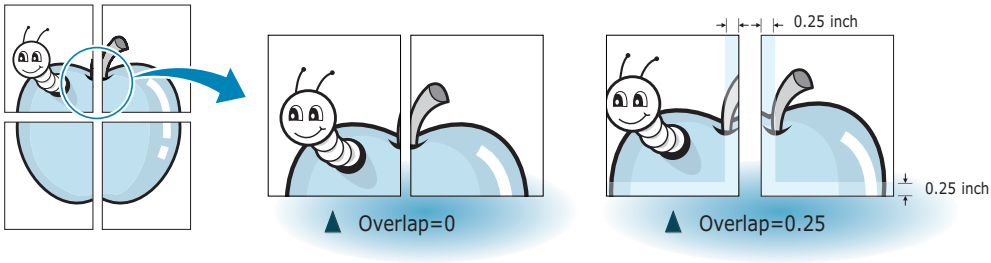


3 To determine the scaling factor, select the **Style**; **2x2**, **3x3** or **4x4**.

For example, if you select **2x2**, the output will be automatically stretched to cover four physical pages.



4 You may specify an overlap in millimeter or inch to make it easier to reconstruct the resulting poster.

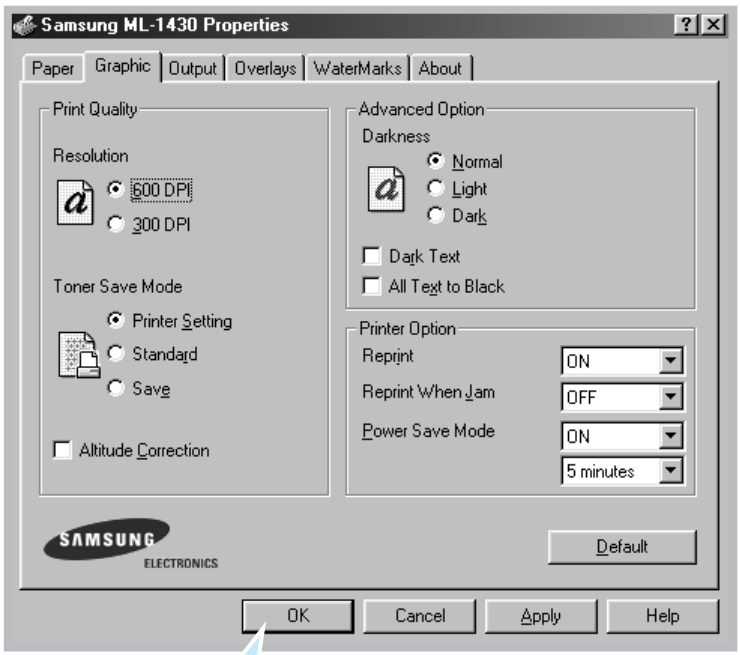


5 Click **OK** to start printing.

Setting Graphic Properties

Use the following options to adjust the print quality for specific printing needs when you access the printer properties. See page 5.1 for more information on accessing printer properties.

Click the **Graphic** tab to display the settings shown below.



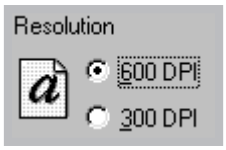
Click here to save the changes when setting is done.



When the "**Dark Text**" is checked, all text in your document is allowed to print darker than normal document.

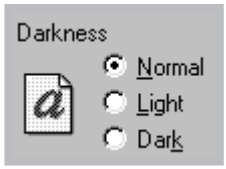
When the "**All Text To Black**" is checked, all text in your document is allowed to print solid black, regardless of the color it appears on the screen.When it is not checked, colored text is allowed to print in shades of gray.

Resolution



You can select the printing resolution by choosing either **300 DPI** or **600 DPI**. The higher the setting, the sharper the clarity of printed characters and graphics. Higher settings may increase the time it takes to print a document.

Darkness



Use this option to lighten or darken the image appearance of your print jobs.

- **Normal** – For normal documents.
- **Light** – For bolder line widths or darker gray-scale images.
- **Dark** – For finer line width, higher definition in graphics, and lighter gray-scale images.

Reprint



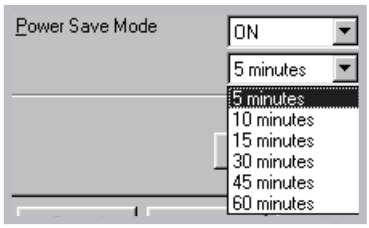
You can set the printer to reprint the last page of the last job when the **Cancel/Reprint** button is pressed. For details, see 'Reprinting the Last Page' on page 5.20.

Reprint When Jam



With this option **ON**, the printer stores the image for a printed page until the printer signals that the page has successfully exited the printer. If a paper jam occurs, the printer will automatically reprint all jammed pages after the jam is cleared.

Power Save Mode





To conserve power when the printer is idle, set the printer to enter a reduced power state after completing a print job, according to a time specified in the Power save Mode box.

Select the desired length of time from the drop-down list.

If your printer is constantly in use, select **OFF** to keep the printer ready with the minimum warm-up time. This uses more energy to keep the printer ready to print.

Altitude Correction



With this option checked, you can optimize the print quality for a low pressure area, such as a high ground.

Printing Watermarks



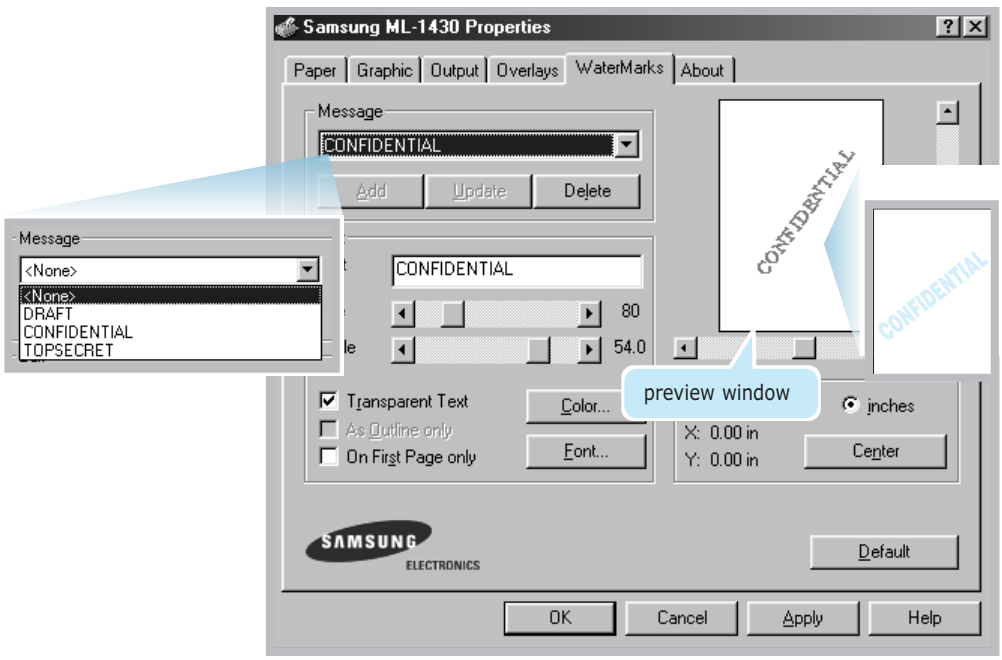
The Watermark option allows you to print text over an existing document. For example, you may want to have large gray letters reading "DRAFT" or "CONFIDENTIAL" printed diagonally across the first page or all pages of a document.

There are several predefined watermarks in the ML-1430 Series printer, these can be modified or you can add new ones to the list.

To use an existing watermark

1 To change the print settings from your software application, access the printer properties. See page 5.1 to access the printer properties.

2 Click the **WaterMarks** tab and select the desired watermark in the **Message** drop-down list. You will see the selected watermark in the preview window.



3 Click **OK** to start printing.

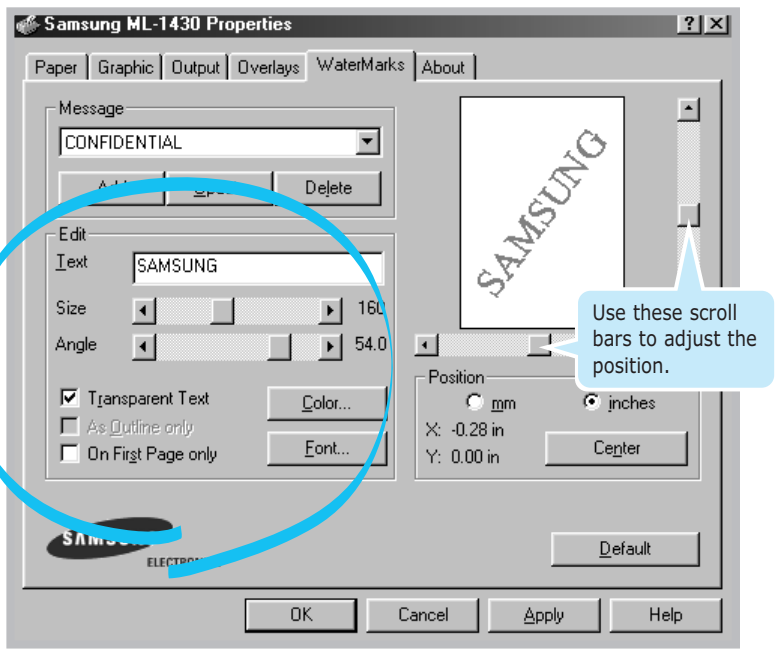
To create or edit a watermark

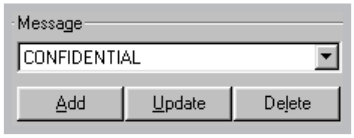
1 To change the print settings from your software application, access the printer properties. See page 5.1 to access the printer properties.

2 Click the **WaterMarks** tab, and enter the desired text message in the **Text** field. This will be displayed in the preview window. The preview window is provided so that you can see how the watermark will appear on the printed page.

3 Select the desired watermark options. You can select the font type and size, color and angle. There are three checkboxes at the bottom of the dialog box:

- **Transparent Text** – Allows the document to show through the watermark.
- **As Outline only** – Prints the text outline of the watermark. This setting globally effects all watermarks in the list.
- **On First Page only** – Prints the watermark only on the first page.





4 If you have created a new or edited an existing watermark, the **Add** and **Update** button is enabled.

To add a new watermark to the list, click **Add**.

5 To edit, select the desired watermark from the list, edit, and then click **Update**.

6 To complete the edit, click **OK**, and start printing.

To stop printing the watermark, select **None** in the Message drop-down list.

To delete a watermark

1 To change the print settings from your software application, access the printer properties. See page 5.1 to access the printer properties.

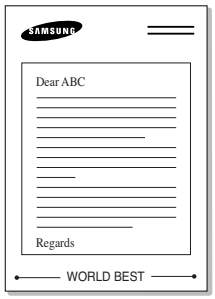
2 From the **WaterMarks** tab, select the watermark for deletion from the **Messages** drop-down list.

3 Click **Delete**.

4 Click **OK**.

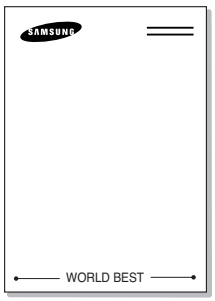
Using Page Overlay

What is an Overlay?



An overlay is text and/or images stored in the computer HDD as a special file format that can be printed on any document. Overlays are often used to take the place of preprinted forms and letterhead paper. Rather than using preprinted letterhead, you can create an overlay containing the exact same information that is currently on your letterhead. To print a letter with your company's letterhead, you do not need to load preprinted letterhead paper in the printer. You need only tell the printer to print the letterhead overlay on your document.

Creating a New Page Overlay

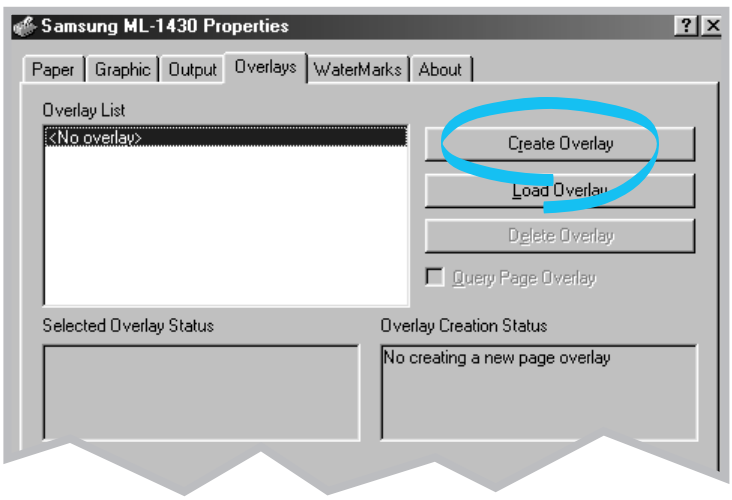


To use a page overlay, you must create a new page overlay containing your logo or image.

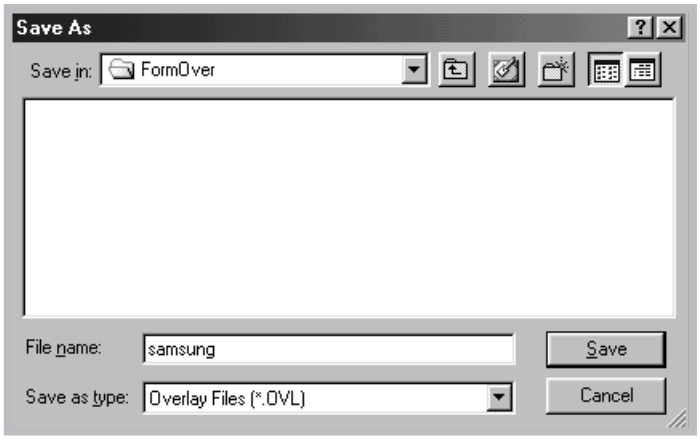
1 Create or open a document containing text or an image for use in page overlay. Position the items exactly as you wish them to appear when printed as an overlay. If needed, save the file for later use.

2 Select **Print** from the **File** menu. Then click **Properties** in the application's Print dialog box to access the printer properties. For details, see page 5.1.

3 Click the **Overlays** tab, and click **Create Overlay**.



4 In the Create Overlay dialog box, type a name of up to eight characters in the **File name** box. Select the destination path if necessary. (The default is C:\FORMOVER).



5 Click **Save**. You will see the name in the **Overlay List** box.

6 Click **OK** or **Yes** until you complete the creation.

The file is not printed out. Instead it is stored on your computer HDD disk.

Note: The overlay document size must be the same as documents you will print with the overlay.

Using Page Overlay

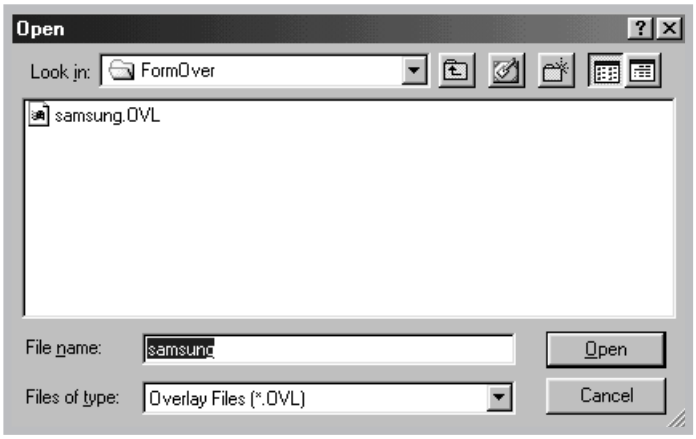
After an overlay has been created, it is ready to be printed with your document. To print an overlay with a document:

1 Create or open the document to print.

2 To change the print settings from your software application, access the printer properties. See page 5.1 to access the printer properties.

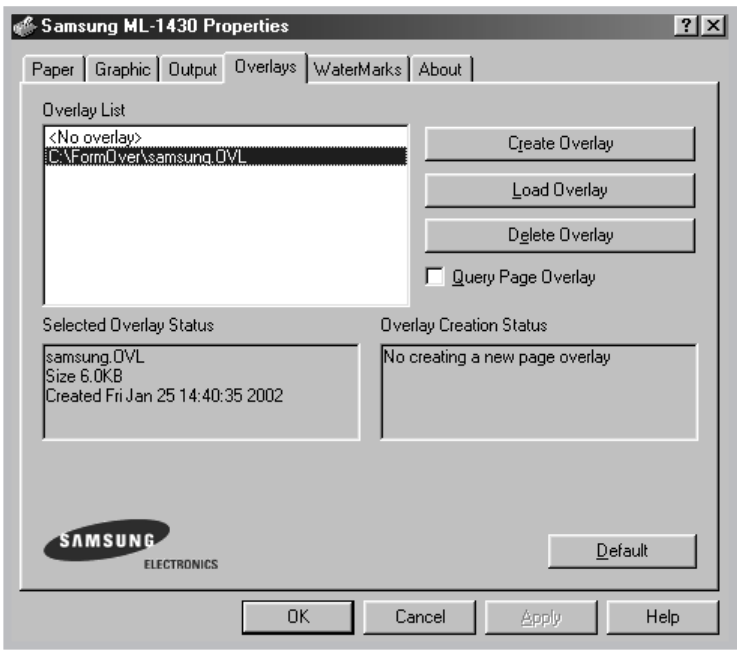
3 Click the **Overlays** tab, and select the desired overlay from the **Overlay List** box.

4 If the desired overlay file does not appear in the **Overlay List** box, click **Load Overlay**, and select the overlay file.



If the stored overlay file is from an external source, you can also load the file when you access this Load Overlay window.

To select the file, click **Open**. The file is now shown in the **Overlay List** box and is available for printing. Select the overlay from the **Overlay List** box.



5 If necessary, click **Query Page Overlay**. When this box is checked, a message box appears each time you submit a document for printing, asking you to print an overlay on your document.

Answering **Yes** to the message box means that the selected overlay will be printed with your document. Answering **No** to the message box cancels overlay printing.

If this box is empty, and an overlay has been selected, the overlay will be automatically printed with your document.

6 Click **OK** or **Yes** until the printing starts.

The selected overlay will be downloaded with the print job and printed on the document.

Deleting a Page Overlay

You can delete page overlays that are no longer used.

1 In the printer properties dialog box, click the **Overlays** tab.

2 Select the overlay to delete from the **Overlay List** box.

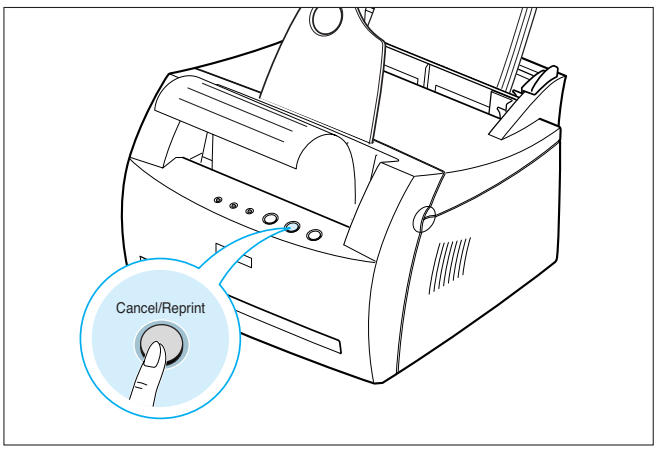
3 Click **Delete Overlay**.

4 Click **OK** to exit the Print dialog box.

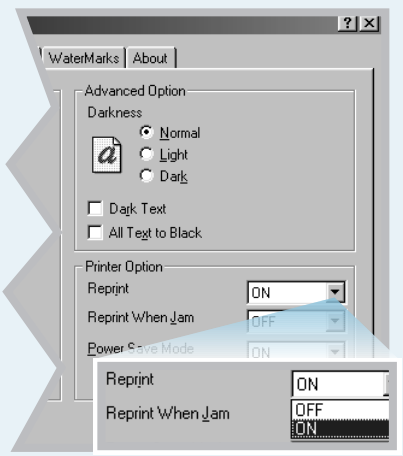
Reprinting the Last Page

The Samsung ML-1430's memory stores the last page of the last job. If you canceled a print job due to a paper jam or other problems and want to know which page was printed last, reprint the last page.

Press **Cancel/Reprint** in Ready mode to reprint the last page.



Note: To prevent someone from reprinting your document, you can disable the reprinting feature in the printer's properties dialog box. When you turn the feature off in the printer's properties, the **Cancel/Reprint** button on the control panel does not perform the reprinting operation.



To disable this feature:

1. From the **Start** menu, select **Settings** and then **Printers**.
2. Click the right mouse button on the **Samsung ML-1430 Series** printer icon and select **Properties** to open the properties window.
3. From the **Graphic** tab, Select **OFF** from the **Reprint** drop-down list.

   With this option OFF, you cannot reprint the last page from the control panel.

   When you want to reprint the last page on the control panel, you must select **ON** from the list.
4. Click **OK**.

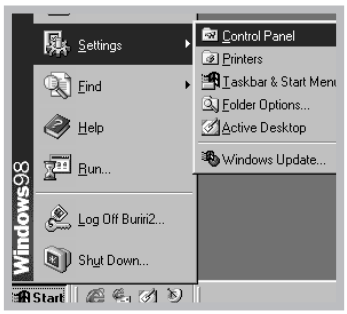
Printing in a Network Environment

If you work in a network environment, you can connect the ML-1430 Series printer directly to a selected computer (called the "host computer") on the network. The printer can then be shared by other users on the network through a Windows 9x, Me, NT 4.0, 2000 or XP network printer connection.

Note: You need to install the Samsung ML-1430 Series printer driver on each computer that will send documents to the printer.

Windows 9x/Me

Setting Up Host Computer



1. Start Windows.
2. From the **Start** menu, select **Control Panel**, and double-click on the **Network** icon.
3. Check the **File and Print Sharing** box, then click **OK**. Close the window.
4. Click **Start** and select **Printers** from **Settings**, then double-click your printer name.
5. Select **Properties** in the **Printer** menu.
6. Click the **Sharing** tab, then check the **Shared As** box. Fill in the Shared Name field, then click **OK**.

Setting Up Client PC



1. Right-click **Start**, and select **Explorer.**
2. Open the network folder in the left column.
3. Right-click the shared name, and select **Capture Printer Port**.
4. Select the port, check the **Reconnect at log on** box, then click **OK**.
5. From the **Start** menu, select **Settings**, then **Printers**.
6. Double-click your printer icon.
7. From the **Printer** menu, select **Properties.**
8. Press the **Details** tab, select the printer port, then click **OK**.

Windows NT/2000/XP

Setting Up Host Computer

1 Start Windows.

2 From the **Start** menu, select **Settings**, then **Printers**. (Windows NT/2000)
From the **Start** menu, select **Printers and Faxes**. (Windows XP)

3 Double-click your printer icon.

4 From the **Printer** menu, select **Sharing.**

5 Check the **Shared** box. (Windows NT)
Check the **Shared As** box. (Windows 2000)
Check the **Share this printer** box. (Windows XP)

Fill in the **Share Name** field, then click **OK**. (Windows NT)
Fill in the **Shared Name** field, then click **OK**. (Windows 2000/XP)

Setting Up Client PC

1. Right-click **Start**, and select **Explorer.**
2. Open your network folder in the left column.
3. Click the shared name.
4. From the **Start** menu, select **Settings**, then **Printers**. (Windows NT/2000)
   From the **Start** menu, select **Printers and Faxes**. (Windows XP)
5. Double-click your printer icon.
6. From the **Printer** menu, select **Properties.**
7. Press the **Ports** tab, click **Add Port**.
8. Select **Local port**, and click **New Port**.
9. Fill in the **Enter a port name** field, enter the shared name.
10. Click **OK**, and click **Close** .
11. Click **OK**. (Windows NT)
    Click **Apply**, and click **OK**. (Windows 2000/XP)

Memo

CHAPTER 6

Maintaining Your Printer

This chapter provides suggestions for maintaining the toner cartridge and printer.

Topics included in this chapter are:

- Maintaining the Toner Cartridge
- Cleaning the Printer

Maintaining the Toner Cartridge

Toner cartridge storage

To get the maximum results from the toner cartridge, keep the following guidelines in mind.

- Do not remove the toner cartridge from its package until ready for use.
- Do not refill toner cartridges. **The printer warranty does not cover damage caused by using a refilled cartridge.**
- Store toner cartridges in the same environment as the printer.
- To prevent damage to the toner cartridge, do not expose it to light for more than a few minute.

Toner cartridge life expectancy

The life of the toner cartridge depends on the amount of toner that print jobs require. When printing text at 5% coverage, a new toner cartridge lasts an average of 2,500 pages. (The original toner cartridge supplied with the printer lasts an average of 1,000 pages.)

Recycling toner cartridge

After installing a new toner cartridge (see page 2.2), follow the instructions included in the toner cartridge box to recycle the old cartridge.

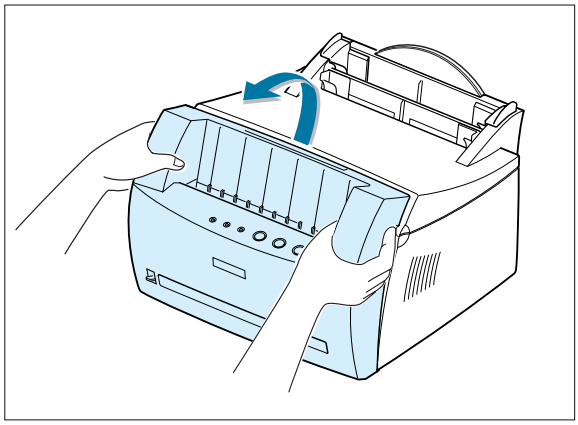
Saving toner

To save toner, press the **Toner Save** button on the printer control panel. The button will be lit. You can also enable the **Toner Save Mode** in the printer properties. Refer to "Using Toner Save Mode" on page 5.6. Selecting this option will extend the life of the toner cartridge and reduce your cost per page, but will reduce print quality.

Redistributing Toner

When toner is low, faded or light areas may appear on a printed page. You may be able to temporarily improve print quality by redistributing the toner. The following procedures may allow you to finish the current print job before replacing the toner cartridge.

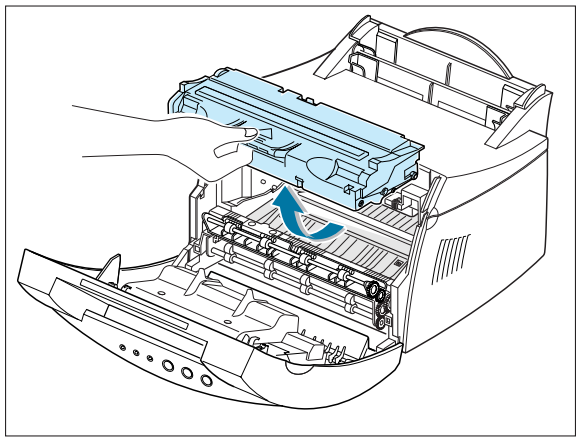
1 Grasp the front cover at both sides and pull it toward you to open.



2 Remove the toner cartridge from the printer.

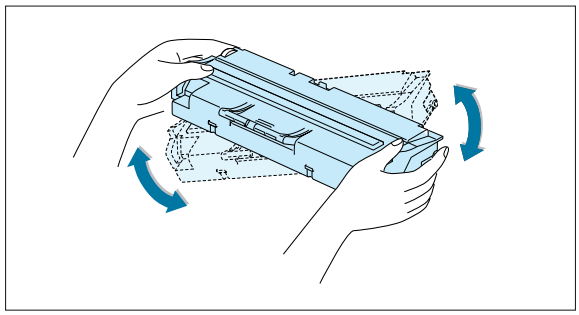
CAUTION:

- Avoid reaching too far into the printer. **The fusing area may be hot**.
- To prevent damage to the toner cartridge, **do not expose it to light for** more than a few minutes.

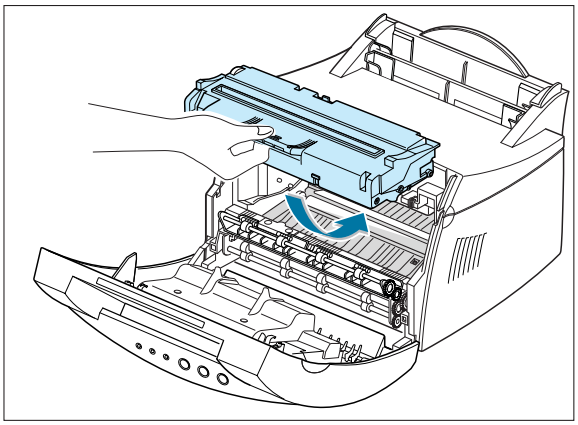


3 Gently shake the toner cartridge from side to side five or six times to redistribute the toner.

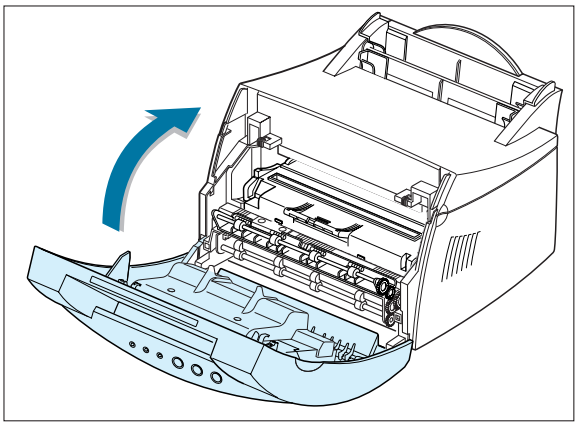
Note: If the toner gets on your clothing, wipe it off with a dry cloth and wash clothing in cold water. **Hot water sets toner into fabric**.



4 Reinsert the toner cartridge into the printer. Insure the toner cartridge snaps into place.



5 Firmly close the cover.



If the print remains light

Remove the old cartridge and install a new toner cartridge. See "Install the Toner Cartridge" on page 2.2.

Cleaning the Printer

To maintain print quality, follow the cleaning procedures below each time the toner cartridge is replaced or if print quality problems occur.

Notes:

- Do not use ammonia-based cleaners or volatile solvents such as thinner on or around the printer. These can damage the printer.
- While cleaning the inside of the printer, be careful not to touch the transfer roller (located underneath the toner cartridge). The oil from your fingers can cause print quality problems.

Cleaning the Outside

Wipe the outside surface of the printer with a soft, clean, lint-free cloth.

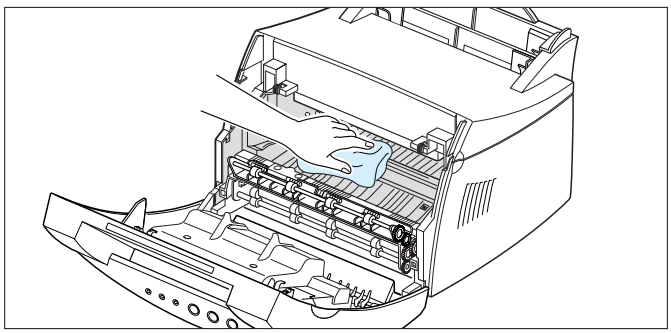
Cleaning the Inside

During the printing process, paper, toner, and dust particles can accumulate inside the printer. This buildup can cause print quality problems such as toner specs or smearing. Cleaning the inside of the printer will eliminate or reduce these problems.

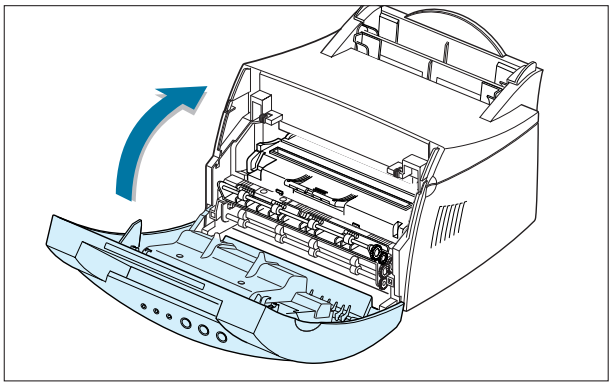
Cleaning inside the printer

1. **Turn the printer off** and unplug the power cord, then wait for the printer to cool.
2. Open the front cover and remove the toner cartridge.
3. With a dry, lint-free cloth, wipe away any dust and spilled toner from the toner cartridge area and the toner cartridge cavity.

Note: To prevent damage to the toner cartridge, do not expose it to light for more than a few minute. Cover it with a piece of paper, if necessary. Also, do not touch the black transfer roller inside the printer.



4 Reinsert the toner cartridge and close the cover.



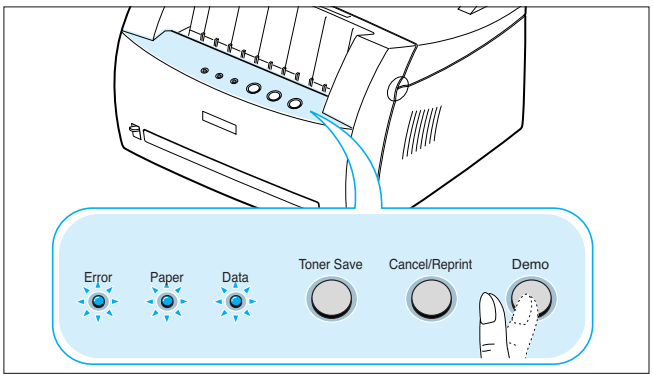
5 Plug in the power cord, and turn the printer on.

Printing a cleaning sheet

If you are experiencing blurred, faded or smeared printouts. Printing a cleaning sheet cleans the drum inside the toner cartridge. This process will produce a page with toner debris, which should be discarded.

1 Insure the printer is turned on and in the ready mode with paper loaded in the automatic input tray.

2 Press and hold down **Demo** on the control panel for about ten seconds until all control panel lights remain lit, then release.



3 Your printer automatically picks up a sheet of paper from the tray and prints out a cleaning sheet with the dust or toner particles on it.

Note: The cartridge cleaning process takes some time. To stop the printing, turn the power off.

CHAPTER 7

Problem Solving

This chapter provides helpful information on the following topics:

- Troubleshooting Checklist
- Solving General Printing Problems
- Clearing Paper Jams
- Solving Print Quality Problems
- Troubleshooting Error Messages
- Common Windows Problems
- Common Macintosh Problems
- Common Linux Problems

Troubleshooting Checklist

If the printer is not working properly, consult the following checklist. If the printer does not pass a step, follow the corresponding troubleshooting suggestions.

Check	Solution
Insure the **Data** light on the control panel is on.	• If no lights are on, check the power cord and power switch. Check the power source by plugging into another outlet. • If other lights are on, go to "Troubleshooting Error Messages" on page 7.17.
Press the **Demo** button to print a demo page.	• If a demo page does not print, check the paper supply in the input tray. • If the paper jams in the printer, go to " Clearing Paper Jams" on page 7.6. • If the **Error** indicator light is illuminated on the control panel, go to "Troubleshooting Error Messages" on page 7.17.
Check the demo page to see if it is printed correctly.	If there is a print quality problem, go to "Solving Print Quality Problems" on page 7.11.
Print a short document from a software application to verify that the computer and printer are connected and are communicating correctly.	• If the page does not print, check the cable connection between the printer and computer. • Check the print queue or print spooler to see if the printer has been paused. • Check the software application to insure you are using the proper printer driver and communication port. If the page is interrupted during printing, go to "Solving General Printing Problems" on page 7.2.
If completing the checklist does not resolve the printer problem , check the following troubleshooting sections.	• "Solving General Printing Problems" on page 7.2. • "Troubleshooting Error Messages" on page 7.17. • "Common Windows Problems" on page 7.20. • "Common Macintosh Problems" on page 7.21. • "Common Linux Problems" on page 7.22.

Solving General Printing Problems

For problems with the operation of your printer, refer to the table for suggested solutions.

Problem	Possible Cause	Solution
The printer does not print.	The printer is not receiving power.	If no lights are on, check the power cord connections. Check the power switch and power source.
	The printer is not selected as the default printer.	Select **Samsung ML-1430 Series** as your default printer.
	Check the printer for the following:	• The printer cover is not closed. • Paper is jammed. • No paper is loaded. • Toner cartridge is not installed. • If printer system error occurs, contact a service representative.
	The printer may be in manual feed mode and out of paper. (The **Paper** light is on.)	Add paper to the manual input tray and press the **Demo** button on the printer's control panel to begin printing.
	The connection cable between the computer and the printer is not connected properly.	Disconnect the printer cable and reconnect it.
	The connection cable between the computer and the printer is defective.	If possible, attach the cable to another computer that is working properly and print a job. You can also try using a different printer cable.
	The port setting is incorrect.	Check the Windows printer setting to insure the print job is sent to the correct port (for example, LPT1). If the computer has more than one port, insure the printer is attached to the correct one.

Problem	Possible Cause	Solution
The printer does not print. (continued)	The printer may be configured incorrectly.	Check the printer properties to insure all print settings are correct.
	The printer driver may be incorrectly installed.	Uninstall the printer driver, then reinstall the printer driver. Try printing a demo page.
	The printer is malfunctioning.	Check the lights on the control panel to determine if the printer is indicating a system error.
Printer selects media from the wrong paper source.	The paper source selection in the printer properties may be incorrect.	For many software applications, the paper source selection is found under the **Paper** tab within the printer properties. Select the correct paper source.
Paper does not feed into the printer.	Paper has not been loaded correctly.	Remove paper from the input tray and reload.
	There is too much paper in the input tray.	Remove excess paper from the input tray.
	The paper is too thick.	Use only paper that meets the specifications required by the printer.
Print job is extremely slow.	The job may be very complex. The maximum print speed of the Samsung ML-1430 Series printer is 14 pages per minute.	Reduce the complexity of the page or try adjusting the print quality settings.
	If using Windows 9x/Me, the Spooling Setting may be set incorrectly.	From the **Start** menu, choose **Settings** and **Printers**. Right-click the Samsung ML-1430 Series printer icon, choose **Properties**, click the **Details** tab, and then choose the **Spool Settings** button. Select the desired spool setting.

Problem	Possible Cause	Solution
Half the page is blank.	The page layout is too complex.	Simplify the page layout and remove any unnecessary graphics from the document.
	The page orientation setting may be incorrect.	Change the page orientation in your application.
	The paper size and the paper size settings do not match.	Insure the paper size in the print settings matches the paper in the input tray.
The paper keeps jamming.	There is too much paper in the paper tray.	Remove excess paper from the tray. If printing special media, use the manual input tray.
	An incorrect type of paper is being used.	Use only paper that meets the specifications required by the printer.
	An incorrect output method is being used.	Media such as thick paper should not be printed using the face-down output tray. Use the face-up output slot instead.
	There may be debris inside the machine.	Open the front cover and remove the debris.
The printer prints, but the text is wrong, garbled, or incomplete.	The printer cable is loose or defective.	Disconnect the printer cable and reconnect. Try a print job that you have already printed successfully. If possible, attach the cable and printer to another computer and try a print job that you know works. Finally, try a new printer cable.
	The wrong printer driver was selected.	Check the application's printer selection menu to insure your printer is selected.

Problem	Possible Cause	Solution
The printer prints, but the text is wrong, garbled, or incomplete. (continued)	The software application is malfunctioning.	Try printing a job from another application.
Pages print, but are blank.	The toner cartridge is defective or out of toner.	Replace the toner cartridge.
	The file may have blank pages.	Check the file to insure it does not contain blank pages.
	Some parts, such as the controller or the board, may be defective.	Contact a service representative.
The illustrations print incorrectly in Adobe Illustrator.	The setting in the software application is wrong.	Print the document with the **Bitmap Printing** checkbox in the Print dialog box.

ATTENTION: The lifetime of the transfer roller
If you have any printing problem after your printer prints about 50,000 pages, you must contact the customer service to replace the transfer roller.

Clearing Paper Jams

Occasionally, paper can become jammed during a print job. Some of the causes include:

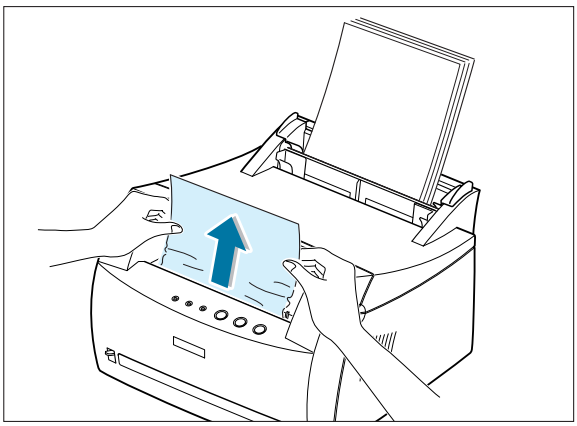
- The paper tray is loaded improperly or overfilled.
- The paper tray has been pulled out during a print job.
- The top cover has been opened during a print job.
- Paper that does not meet paper specifications has been used. See "Paper Specifications" on page A.2.
- Paper that is outside of the supported size range has been used. See "Paper Specifications" on page A.2.

If a paper jam occurs, the **Paper** and the **Error** lights remain lit on the control panel. Find and remove the jammed paper. If the location of the paper jam is not obvious, look inside the printer.

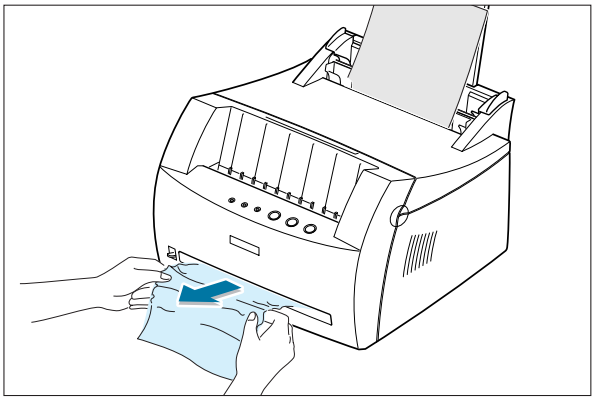
Output Area

Note: Paper jams in this area may result in loose toner on the page. If you get any toner on your clothes, wash them in cold water as hot water will set the toner into the fabric.

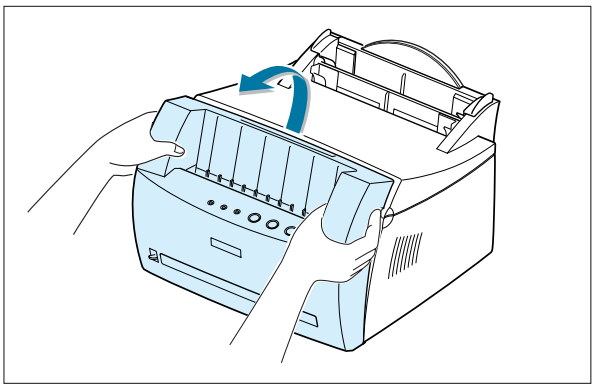
1 Pull the jammed paper carefully from the output stacker.



If paper is jammed in the face-up output slot, carefully remove the paper as shown.



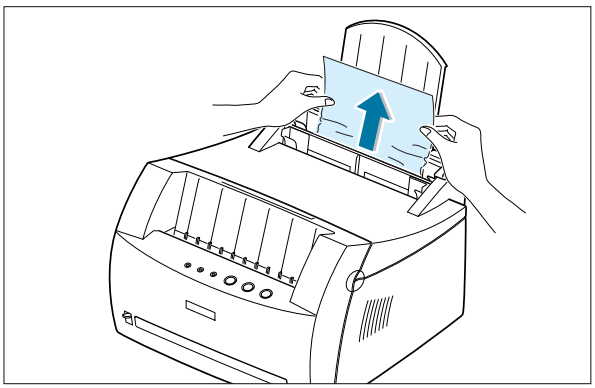
2 Open and close the front cover. Printing can be resumed.



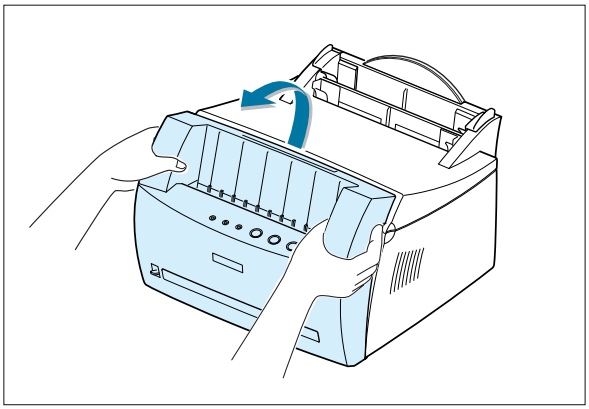
Input Area

Note: If paper has entered the toner cartridge area, follow the instructions on page 7.8.

1 Carefully pull the jammed paper out of the input tray.



2 Open and close the front cover to resume printing.

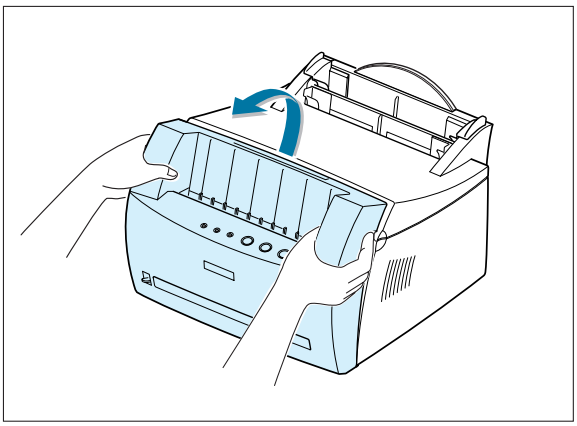


Note: If the **Paper** and the **Error** lights do not turn off, there is still jammed paper inside the printer. Check the inside of the printer.

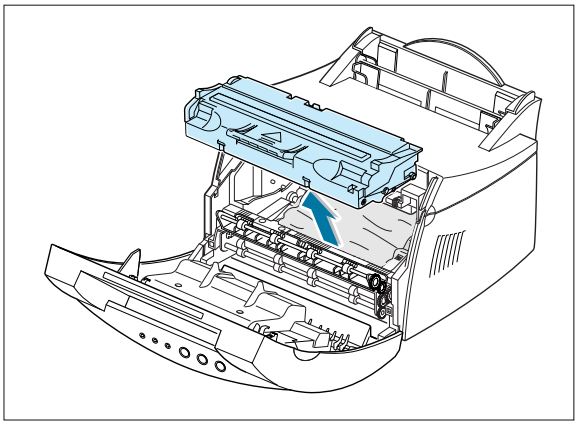
Inside the Printer

Note: Paper jams in this area may result in loose toner on the page. If you get any toner on your clothes, wash them in cold water as hot water will set the toner into the fabric.

1 Grasp the front cover by both sides of the cover and pull it toward you to open.



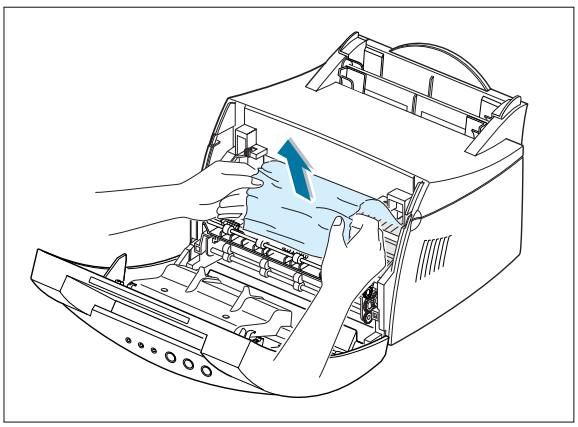
2 Remove the toner cartridge.



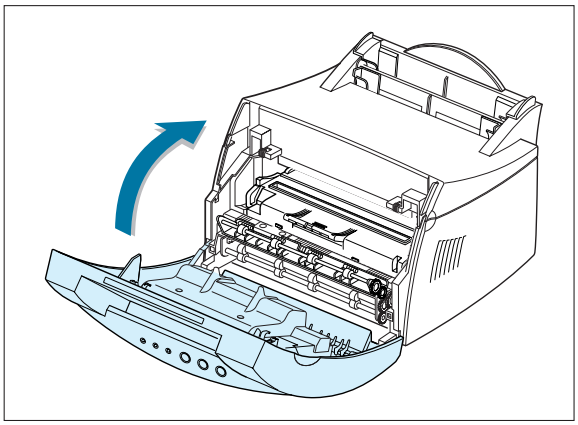
CAUTION: To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Place a piece of paper over the top of the toner cartridge to shield it while it is out of the printer.

3 Gently pull the paper toward you to remove it from the printer.

Make sure that no paper remains inside the printer.



4 Reinsert the toner cartridge and close the front cover. Printing can be resumed.



Tips for Avoiding Paper Jams

By selecting the correct paper types, most paper jams can be avoided. If a paper jam occurs, follow the steps outlined in "Clearing Paper Jams" on page 7.6.

- Follow the procedures in "**Load Paper**" on page 2.4. Insure that the adjustable guides are positioned correctly.
- Do not overload the automatic input tray. Insure the paper is below the paper capacity mark on the inside of the tray.
- Do not remove the paper from the input tray while printing.
- Flex, fan and straighten the paper before loading.
- Do not use creased, damp or highly curled paper.
- Do not mix paper types in the input tray.
- Use only recommended print media. See "Paper Specifications" on page A.2.
- Insure that the recommended print side is facing up when loading paper into both input trays.
- Keep print media stored in an acceptable environment. See "Printer and Paper Storage Environment" on page A.6.

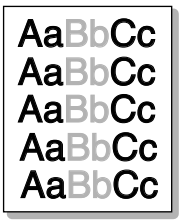
Solving Print Quality Problems

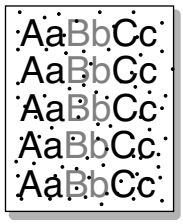
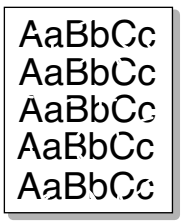
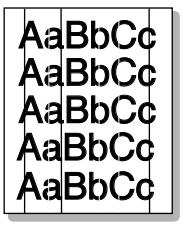
Print Quality Checklist

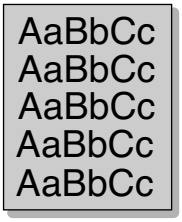
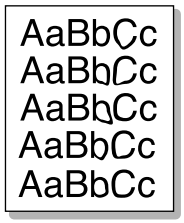
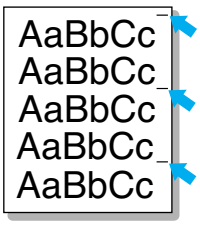
Print quality problems can be resolved by following the checklist below.

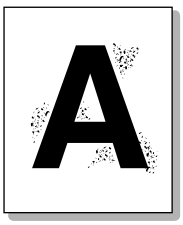
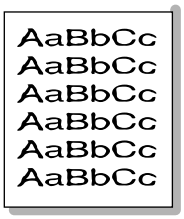
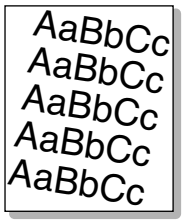
- Redistribute the toner in the toner cartridge (see page 6.2).
- Clean the inside of the printer (see page 6.4).
- Adjust the print resolution from the printer properties (see page 5.11).
- Insure Toner Save Mode is off (see page 5.6).
- Troubleshoot general printing problems (see page 7.2).
- Install a new toner cartridge, and check print quality (see page 2.2).

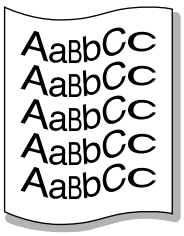
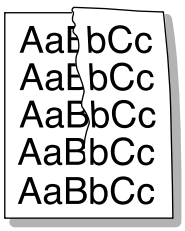
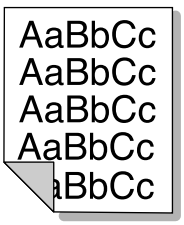
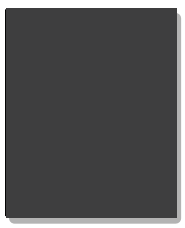
Solving Print Quality Problems

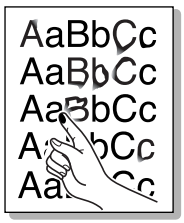
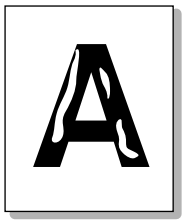
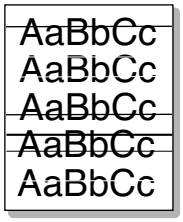
Problem	Solution
Light or faded print 	If a vertical white streak or faded area appears on the page: • The toner supply is low. You may be able to temporarily extend the toner cartridge life. See "Redistributing the Toner" on page 6.2. If this does not improve the print quality, install a new toner cartridge. • The paper may not meet paper specifications (for example, the paper is too moist or too rough). See "Paper Specifications" on page A.2. • If the entire page is light, the print resolution setting is too light or Toner Save Mode is on. Adjust the print resolution and Toner Save Mode in the printer properties. See page 5.6 and 5.11 respectively. • A combination of faded or smeared defects may indicate that the toner cartridge needs cleaning. See "Cleaning the Printer" on page 6.4. • The surface of LSU may be dirty. Clean the LSU. See "Cleaning the Printer" on page 6.4.

Problem	Solution
Toner specs 	• The paper may not meet specifications (for example, the paper is too moist or too rough). See "Paper Specifications" on page A.2. • The transfer roller may be dirty. See "Cleaning the Inside" on page 6.4. • The paper path may need cleaning. See "Cleaning the Inside" on page 6.4.
Dropouts 	If faded areas, generally rounded, occur randomly on the page: • A single sheet of paper may be defective. Try reprinting the job. • The moisture content of the paper is uneven or the paper has moist spots on its surface. Try a different brand of paper. See "Paper Specifications" on page A.2. • The paper lot is bad. The manufacturing processes can cause some areas to reject toner. Try a different kind or brand of paper. • The toner cartridge may be defective. See "Vertical repetitive defects" on the next page. • If these steps do not correct the problems, contact a service representative.
Vertical lines 	If black vertical streaks appear on the page: • The drum inside the toner cartridge has probably been scratched. Install a new toner cartridge.

Problem	Solution
Gray background 	If the amount of background shading becomes unacceptable, the procedures below may fix the problem. • Change to a lighter weight pages. See "Paper Specifications" on page A.2. • Check the printer's environment; very dry (low humidity) or high humidity (higher than 80% RH) conditions can increase the amount of background shading. • Install a new toner cartridge.
Toner smear 	• Clean the inside of the printer. See "Cleaning the Inside" on page 6.4. • Check the paper type and quality. See "Paper Specifications" on page A.2. • Install a new toner cartridge.
Vertical repetitive defects 	If marks repeatedly appear on the printed side of the page at even intervals: • The toner cartridge may be damaged. If a repetitive mark occurs on the page, print a cleaning sheet several times to clean the cartridge (see page 6.5). After the printout, if you still have the same problems, install a new toner cartridge. • Parts of the printer may have toner on them. If the defects occur on the back of the page, the problem will likely correct itself after a few more pages. • The fusing assembly may be damaged. Contact a service representative.

Problem	Solution
Background scatter 	Background scatter results from bits of toner distributed on the printed page. • The paper may be too damp. Try printing with a different batch of paper. Do not open packages of paper until necessary so that the paper does not absorb too much moisture. • If background scatter occurs on an envelope, change the printing layout to avoid printing over areas that have overlapping seams on the reverse side. Printing on seams can cause problems. • If background scatter covers the entire surface area of a printed page, adjust the print resolution through your software application or the printer properties.
Misformed characters 	• If characters are improperly formed and producing hollow images, the paper stock may be too slick. Try a different paper. See "Paper Specifications" on page A.2. • If characters are improperly formed and producing a wavy effect, the scanner unit may need service. Verify that it also occurs on a demo page by pressing the **Demo** button on the control panel when the printer is ready. For service, contact a service representative.
Page skew 	• Check the paper type and quality. See "Paper Specifications" on page A.2. • Insure the paper or other media is loaded correctly and the guides are not too tight or too loose against the paper stack.

Problem	Solution
Curl or wave 	• Check the paper type and quality. Both high temperature and humidity can cause paper curl. See "Paper Specifications" on page A.2. • Turn over the stack of paper in the input tray. Also try rotating the paper 180° in the input tray. • Push the output lever and try printing to the face up output slot.
Wrinkles or creases 	• Insure that the paper is loaded properly. • Check the paper type and quality. See "Paper Specifications" on page A.2. • Push the output lever and try printing to the face up output slot. • Turn over the stack of paper in the input tray. Also try rotating the paper 180° in the feeder.
Back of printouts are dirty 	• The transfer roller may be dirty. See "Cleaning the Inside" on page 6.4. • Check for leaking toner. Clean the inside of the printer.
Black pages 	• The toner cartridge may not be installed properly. Remove the cartridge and reinsert. • The toner cartridge may be defective and need replacing. Install a new toner cartridge. • The printer may require repair. Contact a service representative.

Problem	Solution
Loose toner 	• Clean the inside of the printer. • Check the paper type and quality. See "Paper Specifications" on page A.2. • Install a new toner cartridge. • If the problem persists, the printer may require repair. Contact a service representative.
Character Voids 	Character voids are white areas within the parts of characters that should be solid black: • If you are using transparencies, try another type of transparency. (Because of the composition of transparency media, some character voids are normal.) • You may be printing on the wrong surface on the paper. Remove the paper and turn it around. • The paper may not meet paper specifications. See "Paper Specifications" on page A.2.
Horizontal stripes 	If horizontally aligned black streaks or smears appear: • The toner cartridge may be installed improperly. Remove the cartridge and reinsert. • The toner cartridge may be defective. Install a new toner cartridge. • If the problem persists, the printer may require repair. Contact a service representative.

Troubleshooting Error Messages

When the printer experiences an error, the control panel will indicate an error message with the indicator lights. Find the light pattern below that matches the printer light pattern and follow the solutions to clear the error.

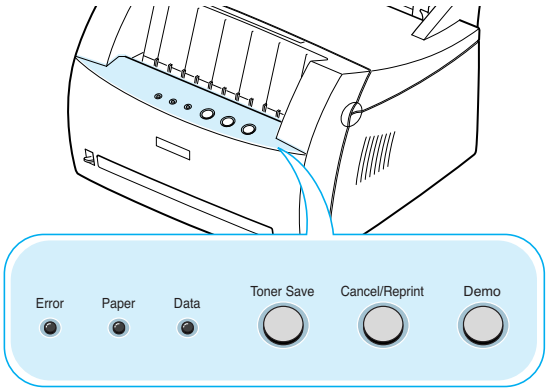
Printer Light Patterns

Light status legend

symbol for "light off"

symbol for "light on"

symbol for "light blinking"



Error Paper Data

Power off

- Check the power cord and the power switch if your printer does not power up.

Error Paper Data

Paper jam, or no toner cartridge

Paper is jammed inside the printer or the toner cartridge is not installed.

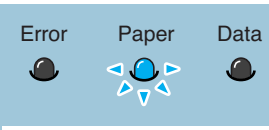
- Clear the paper jam. See "Clearing Paper Jams" on page 7.6.
- Insure that the toner cartridge is correctly installed in the printer.

Error Paper Data

Paper out

The printer is out of paper in the input tray.

- Load paper into the tray. For the automatic input tray, loading paper will cancel this message and allow you to continue with the print job. For the manual input tray, press the **Demo** button after loading paper.



Waiting for the Demo button to be pressed

While printing in the manual feed mode, the printer is waiting for the **Demo** button to be pressed.

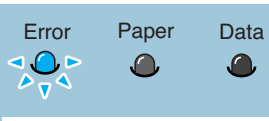
- Press the **Demo** button on the control panel to start printing. You must press the button to print each page after loading paper into the manual input tray.



Door open

The printer front cover may be open.

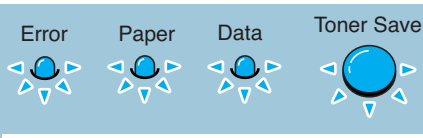
- Check that the printer front cover door is closed properly.



Canceling a job or memory out

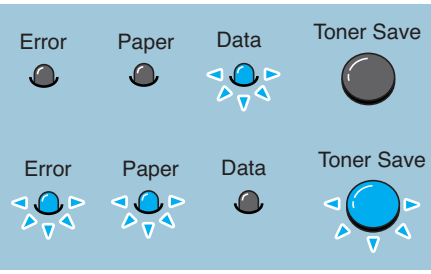
If your printer is canceling a job (see page 5.5), the **Error** light blinks. When cancellation is complete, the message will automatically clear. The printer memory may not be sufficient for the print job. The page being printed may have been too complex for the memory capacity of the printer. Press the **Cancel/Reprint** button to cancel the current job.

- Try to free up memory by removing any unnecessary fonts, macros, or any data currently in printer memory.
- Simplify the image or print at a lower resolution.



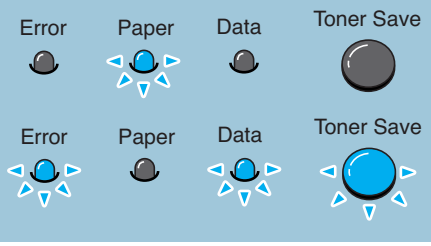
LSU error

- Reset the printer by briefly turning the printer off and back on again.
- If the error persists, contact a service representative.



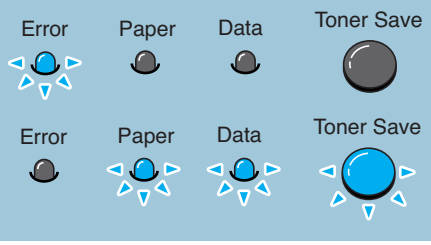
Engine Over Heat error

- Reset the printer by briefly turning the printer off and back on again.
- If the error persists, contact a service representative.



System error(No Heat error)

- Reset the printer by briefly turning the printer off and back on again.
- If the error persists, contact a service representative.



Open Fuser error

- Reset the printer by briefly turning the printer off and back on again.
- If the error persists, contact a service representative.

Common Windows Problems

Problem	Possible Cause and Solution
"File in Use" message appears during installation.	Exit all software applications. Remove all software from the StartUp Group, then restart Windows. Reinstall the printer driver.
"Error Writing to LPTx" message appears.	• Insure the cables are connected correctly, the printer is on, and the **Data** light on the control panel is on. • If bi-directional communication is not turned on in the driver, it will also cause this message. • From the **Start** menu, select **Settings**, then **Printers**. Right-click on the Samsung ML-1430 Series printer icon and select **Properties**. From the **Details** tab, click on **Port Settings**. Uncheck the **Check Port State before Printing** box and click **OK**. From **Spool Settings**, select **Print Directly to Printer** and click **OK**. Try printing again.
"General Protection Fault", "Exception OE", "Spool32", or "Illegal Operation" messages appear.	Close all other applications, reboot Windows, and try printing again.

Note: Refer to Microsoft Windows 9x, Me, NT 4.0, 2000 or XP documentation that came with your PC for further information on Windows error messages.

Common Macintosh Problems

Problems in the Chooser

Problem	Possible Cause and Solution
The printer driver icon does not appear in the **Chooser**.	Software is not installed correctly. • The LaserWriter driver should be present as a part of the Macintosh OS. Make sure that the LaserWriter driver is in the **Extensions** folder within the **Systems** folder. If not, install the LaserWriter driver component from the Macintosh OS CD. • Make sure that you are using a high-quality cable. • Make sure that the printer is on the correct network. Select **Network** or **AppleTalk Control Panel** from **Control Panels** in the **Apple** menu and then choose the correct network.

Printing Errors

Problem	Possible Cause and Solution
You cannot use the computer while the printer is printing.	Background Printing has not been selected. • For LaserWriter 8.3, turn **Background Printing** on in the **Chooser**. Status messages will now be redirected to the **Print Monitor** allowing you to continue working while the computer is processing data to be sent to the printer. • For LaserWriter 8.4 or higher, turn **Background Printing** on at the Print dialog box.

Common Linux Problems

Problem	Possible Cause and Solution
I can't change settings in the configuration tool.	You need to have administrator privileges to be able to affect global settings.
I am using the KDE desktop but the configuration tool and SLPR won't start.	Maybe you do not have the GTK libraries installed. These usually come with most Linux distributions, but you may have to install them manually. Refer to your distribution's installation manual for more details about installing additional packages.
I just installed this package but can't find entries in the KDE/Gnome menus.	Some versions of the KDE or GNOME desktop environments may require that you restart your session for the changes to take effect.
I get a "Some options are not selected" error message while editing the printer settings.	Some printers have conflicting settings, meaning that some settings for two options can't be selected at the same time. When you change a setting and the Printer Package detects such a conflict, the conflicting option is changed to a "No Choice" value, and you have to choose an option that does not conflict before being able to submit the changes.
I can't make a printer the system default.	In some conditions, it may not be possible to change the default queue. This happens with some variants of LPD or LPRng. LPD systems identify the default queue as the one named "lp". Thus if there is already a queue by this name, and if it doesn't have any alias, then you won't be able to change the default. To work around this, you can either delete the queue, or rename it by manually editing the **/etc/printcap** file.
The N-up setting does not work correctly for some of my documents.	The N-up feature is achieved through post-processing of the PostScript data that is being sent to the printing system. However, such post-processing can only be adequately achieved if the PostScript data conforms to the Adobe Document Structing Conventions. Problems may arise when using N-up and other features relying on post-processing if the document being printed isn't compliant.

Problem	Possible Cause and Solution
I am using BSD lpr (Slackware, Debian, older distributions) and some options chosen in SLPR don't seem to take effect.	Legacy BSD lpr systems have a hard limitation on the length of the option string that can be passed to the printing system. As such, if you selected a number of different options, the length of the options may be exceeded and some of your choices won't be passed to the programs responsible for implementing them. Try to select less options that deviate from the defaults, to save on memory usage.
I am trying to print a document in Landscape mode, but it prints rotated and cropped.	Most Unix applications that offer a Landscape orientation option in their printing options will generate correct PostScript code that should be printed as is. In that case, you need to make sure that you leave the SLPR option to its default Portrait setting, to avoid unwanted rotations of the page that would result in a cropped output.
Some pages come out all white (noting is printed), and I am using CUPS.	If the data being sent is in Encapsulated PostScript (EPS) format, some earlier versions of CUPS (1.1.10 and before) have a bug preventing them from being processed correctly. When going through SLPR to print, the Printer Package will work around this issue by converting the data to regular PostScript. However, if your application by passes SLPR and feeds EPS data to CUPS, the document may not print correctly.
I can't print to a SMB (Windows) printer.	To be able to configure and use SMB-shared printers (such as printers shared on a Windows machine), you need to have a correct installation of the SAMBA package that enables that feature. The "smbclient" command should be available and usable on your system.
My application seems to be frozen while SLPR is running.	Most Unix applications will expect a command like the regular "lpr" command to be non-interactive and thus return immediately. Since SLPR is waiting for user input before passing the job on to the print spooler, very often the application will wait for the process to return, and thus will appear to be frozen (its windows won't refresh). This is normal and the application should resume functioning correctly after the user exits SLPR.

Problem	Possible Cause and Solution
How do I specify the IP address of my SMB server?	It can be specified in the "Add Printer" dialog of the configuration tool, if you don't use the CUPS printing system. Unfortunately, CUPS currently doesn't allow to specify the IP address of SMB printers, so you will have to be able to browse the resource with Samba in order to be able to print.
Some documents come out as white pages when printing.	Some versions of CUPS, especially those shipped with Mandrake Linux before the 8.1 release, have some known bugs when processing the PostScript output from some applications. Try upgrading to the latest version of CUPS (at least 1.1.9). Some RPM packages for most popular distributions are provided as a convenience with this Linux Printing Package.
I have CUPS and some options (such as N-up) seem to be always enabled even though I don't pick them in SLPR.	There may be some local options defined in your **~/.lpoptions** file, which is manipulated by the lpoptions command. These options will always be used if not overriden by SLPR settings. To get rid of all options for a printer, run the following command, replacing "printer" with the name of the queue: lpoptions -x printer
I configured a printer to print to a file, but I get "Permission denied" errors.	Most printing systems will not run as the super-user but as a special user (usually "lp"). Therefore, make sure that the file you have chosen to print to is accessible to the user owning the spooler daemon.
On my PCL (or SPL) printer, I sometimes get error messages printing instead of my document.	Unfortunately, some Unix applications may generate non-compliant PostScript output that may not be supported by Ghostscript, or even the printer itself in PostScript mode. You can try to capture the output to a file and view the results with Ghostscript (gv or ghostview will allow you to do so interactively) and see if you get error messages. However, since the application is at probably fault, contact your software vendor to inform them of the issue.

Memo

Appendix

This appendix provides information on the following topics:

- Printer Specifications
- Paper Specifications
- Using Your Printer with Macintosh
- Using Printer in Linux

Printer Specifications

Item	Specifications and Description
Print Speed	14 PPM (A4), 15 PPM (Letter)
Resolution	600 dpi
First Printing Time	Less than 12.5 seconds
WarmUp Time	30 seconds
Power Rating	AC 100 ~ 127 V (USA, Canada) / 220 ~ 240 V (Others), 50 / 60 Hz
Power Consumption	250 W average during operation / Less than 10 W in sleep mode
Acoustic Noise	Stand by: Less than 35 dB; Operating: Less than 49 dB
Toner Supply	Single cartridge
Toner Cartridge Life	2,500 pages (for starter, 1,000 pages), 5% area coverage
Duty Cycle	Monthly: 12,000 pages maximum
Weight	6.5 Kg / 13.4 lb.
Package Weight	Paper: 1.83 Kg Plastic: 0.33 Kg
External Dimensions (W x D x H)	329 x 352 x 229 mm / 12.95 x 13.85 x 9.01 in.
Operating Environment	Temperature:10 ~ 32 °C / 50 ~ 90 °F; Humidity: 20 ~ 80 % RH
Emulation	SPL
Random Access Memory (RAM)	8 MB (nonexpandable)
Interface	• IEEE 1284 Bidirectional Parallel - Modes supported: Compatible, Nibble, Byte, ECP • USB Interface Standard - USB 1.1 compliant - 12 Mbps 1 port

Paper Specifications

Overview

This printer accepts a variety of media, such as cut-sheet paper (including up to 100% recycled fiber content paper), envelopes, labels, transparencies and custom-size paper. Properties such as weight, composition, grain and moisture content are important factors affecting printer performance and output quality. Paper that does not meet the guidelines outlined in this manual can cause the following problems:

- Poor print quality
- Increased paper jams
- Premature wear on the printer.

Notes:

- Some paper may meet all of the guidelines in this manual and still not produce satisfactory results. This may be the result of improper handling, unacceptable temperature and humidity levels, or other variables over which Samsung has no control.
- Before purchasing large quantities of paper, insure the paper meets the requirements specified in this user guide.

CAUTION: Using paper that does not meet these specifications may cause problems, requiring repairs. These repairs are not covered by the Samsung warranty or service agreements.

Supported Sizes of Paper

Paper	Dimensions		Weight	Capacity[a]
Letter	8.5 X 11 in. (216 X 279 mm)		16 to 24 lb Bond (60 to 90 g/m²)	• 150 sheets of 20 lb Bond (75 g/m²) paper for the automatic input tray • 1 sheet paper for the manual input tray
A4	210 X 297 mm (8.3 X 11.7 in.)			
Executive	7.25 X 10.5 in. (191 X 267 mm)			
Legal	8.5 X 14 in. (216 X 356 mm)			
B5 (JIS)	182 X 257 mm (7.2 X 10 in.)			
Folio	216 X 330 mm (8.5 X 13 in.)			
Minimum Size (custom)	Automatic Input Tray	95 X 127 mm (3.8 X 5 in.)	60 to 163 g/m² Bond (16 to 43 lb)	• 5 sheets of 20 lb Bond (75 g/m²) paper for the automatic input tray • 1 sheet paper for the manual input tray
	Manual Input Tray	76 X 127 mm (3 X 5 in.)		
Maximum Size (custom)	216 X 356 mm (8.5 X 14 in.)			
Transparency	Same minimum and maximum paper sizes as listed above.		Thickness: .10 X .14 mm (0.0039 X 0.0055 in.)	
Labels[b]				
Envelopes			up to 90 g/m² (16-24 lb)	

a. Capacity may vary depending on media weight, thickness and environmental conditions.
b. Smoothness - 100 to 250 (Sheffield)

Note: You may experience paper jams when using media with a length of less than 127 mm (5 in.). For optimum performance, insure you are storing and handling the paper correctly. Please refer to “Printer and Paper Storage Environment” on page A.6.

Guidelines for Using Paper

For best results, use conventional 75 g/m^2 (20 lb) paper. Insure the paper is of good quality, and free of cuts, nicks, tears, spots, loose particles, dust, wrinkles, voids, and curled or bent edges.

If you are unsure of what type of paper you are loading (such as bond or recycled), check the label on the package.

The following problems may cause print quality deviations, jamming, or even damage to the printer.

Symptom	Problem with Paper	Solution
Poor print quality or toner adhesion, problems with feeding	Too moist, too rough, too smooth, or embossed; faulty paper lot	Try another kind of paper, between 100 ~ 250 Sheffield, 4 ~ 5 % moisture content.
Dropout, jamming, curl	Stored improperly	Store paper flat in its moisture-proof wrapping.
Increased gray background shading /printer wear	Too heavy	Use lighter paper, open the rear output tray.
Excessive curl problems with feeding	Too moist, wrong grain direction or short-grain construction	• Open the rear output tray. • Use long-grain paper.
Jamming, damage to printer	Cutouts or perforations	Do not use paper with cutouts or perforations.
Problems with feeding	Ragged edges	Use good quality paper

Notes:

- Do not use letterhead paper printed with low-temperature inks, such as those used in some types of thermography.
- Do not use raised or embossed letterhead.
- The printer uses heat and pressure to fuse toner to the paper. Insure that any colored paper or preprinted forms use inks that are compatible with this fusing temperature (200 °C or 392 °F for 0.1 second).

Paper Specifications

Category	Specifications
Acid Content	5.5 ~ 8.0 pH
Caliper	.094 ~ .18 mm (3.0 ~ 7.0 mils)
Curl in Ream	Flat within 5 mm (.02 in.)
Cut Edge Conditions	Cut with sharp blades with no visible fray.
Fusing Compatibility	Must not scorch, melt, offset, or release hazardous emissions when heated to 200 °C (392 °F) for .1 second.
Grain	Long Grain
Moisture Content	4 % ~ 6 % by weight
Smoothness	100 ~ 250 Sheffield

Paper Output Capacity

Output Tray	Capacity
Face-down output tray	100 sheets of 20 lb bond (75 g/m^2) paper
Face-up output slot	1 sheet of 20 lb bond (75 g/m^2) paper

Printer and Paper Storage Environment

Paper storage environmental conditions directly affect the feed operation.

Ideally, the printer and paper storage environment should be at or near room temperature, and not too dry or humid. Remember that paper is hygroscopic; it absorbs and loses moisture rapidly.

Heat works with humidity to damage paper. Heat causes the moisture in paper to evaporate, while cold causes it to condense on the sheets. Heating systems and air conditioners remove most of the humidity from a room. As paper is opened and used, it loses moisture, causing streaks and smudging. Humid weather or water coolers can cause the humidity to increase in a room. As paper is opened and used it absorbs any excess moisture, causing light print and dropouts. Also, as paper loses and gains moisture it can become distorted. This can cause paper jams.

Care should be taken not to purchase more paper than can be used in a short time (about 3 months). Paper stored for long periods may experience heat and moisture extremes, which can cause damage. Planning is important to prevent damage to large supplies of paper.

Unopened paper in sealed reams can remain stable for several months before use. Opened packages of paper have more potential for environment damage, especially if they are not wrapped with a moisture-proof barrier.

The paper storage environment should be properly maintained to ensure optimum printer performance. The required condition is 20° to 24°C (68° to 75°F), with a relative humidity of 45% to 55%. The following guidelines should be considered when evaluating the paper's storage environment:

- Paper should be stored at or near room temperature.
- The air should not be too dry or too humid.
- The best way to store an opened ream of paper is to rewrap it tightly in its moisture-proof wrapping. If the printer environment is subject to extremes, unwrap only the amount of paper to be used during the day's operation to prevent unwanted moisture changes.

Envelopes

Envelope construction is critical. Envelope fold lines can vary considerably, not only between manufacturers, but also within a box from the same manufacturer. Successful printing on envelopes depends upon the quality of the envelopes. When selecting envelopes, consider the following components:

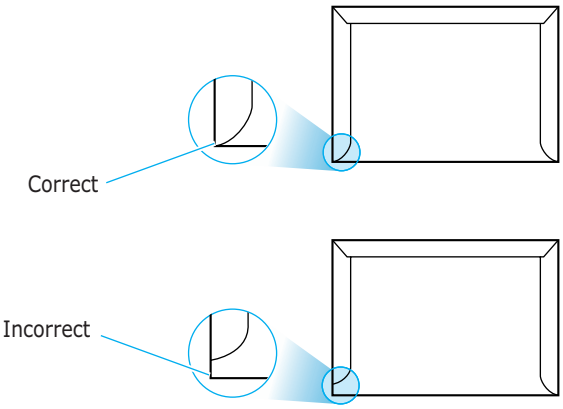
- **Weight:** The weight of the envelope paper should not exceed 90 g/m^2 (24 lbs), otherwise, jamming may occur.
- **Construction:** Prior to printing, envelopes should lie flat with less than 6 mm (0.25 in.) curl.
- **Condition:** Envelopes should not be wrinkled, nicked, or otherwise damaged.
- **Temperature:** Use envelopes that are compatible with the heat and pressure of the printer.
- **Size:** Use only envelopes within the following size ranges.

	Minimum	Maximum
Automatic input tray	95 X 127mm (3.8 X 5 in.)	216 X 356 mm (8.5 X 14 in.)
Manual input tray	76 X 127 mm (3 X 5 in.)	

Note: You may experience some paper jams when using any media with a length of less than 127 mm (5 in.). This may be caused by paper that has been affected by environmental conditions. For optimum performance, insure you are storing and handling the paper correctly. Please refer to “Printer and Paper Storage Environment” on page A.6.

Envelopes with Double Side Seams

Double side-seam construction has vertical seams at both ends of the envelope rather than diagonal seams. This style may be more likely to wrinkle. Insure the seam extends all the way to the corner of the envelope as illustrated below.



Envelopes with Adhesive Strips or Flaps

Envelopes with a peel-off adhesive strip or with more than one flap that folds over must use adhesive compatible with the heat and pressure in the printer. The extra flaps and strips may cause wrinkling, creasing, or even jams and may even damage the fuser.

Envelope Margins

The following gives typical address margins for a commercial #10 or DL envelope.

Type of Address	Top margin	Left margin
Return address	15 mm (0.6 in.)	15 mm (0.6 in.)
Delivery address	51 mm (2 in.)	89 mm (3.5 in.)

Notes:

- For best print quality, position margins no closer than 15 mm (0.6 in.) from the edges of the envelope.
- Avoid printing over the area where the envelope's seams meet.

Envelope Storage

Proper storage of envelopes helps contribute to print quality. Envelopes should be stored flat. If air is trapped in an envelope, creating an air bubble, then the envelope may wrinkle during printing. See "Printing on Envelopes" on page 4.7.

Labels

CAUTIONS:

- To avoid damaging the printer, use only labels recommended for laser printers.
- To prevent jams, always use the face-up output slot.
- Never print on the same sheet of labels more than once or print on a partial sheet of labels.

When selecting labels, consider the quality of each component:

- **Adhesive:** The adhesive material should be stable at 200 °C (392 °F), the printer's fusing temperature.
- **Arrangement:** Only use labels with no exposed backing between them. Labels can peel off sheets with spaces between the labels, causing jams.
- **Curl:** Prior to printing, labels must lie flat with no more than 13 mm (.5 in.) of curl in any direction.
- **Condition:** Do not use labels with wrinkles, bubbles, or other indications of separation.

See "Printing on Labels" on page 4.10.

Transparencies

Transparencies used in the printer must be able to withstand 200 °C (392 °F), the printer's fusing temperature.

CAUTION: To avoid damaging the printer, use only transparencies recommended for use in laser printers.

See "Printing on Transparencies" on page 4.11.

Using Your Printer with Macintosh

Your printer supports Macintosh system with a built-in USB interface. When you print a file from Macintosh, you can use the SPL driver to support your printer's major printing features.

System Requirements

To use your ML-1430 Series printer and its software with a Macintosh, your system should have:

Macintosh Hardware Requirement:

- One of the following Macintosh models:
  -Power Macintosh series (with external network connection)
  -Power Macintosh G3, G4
  -iMac series
  -PowerBook series
  -iBook series
- USB interface

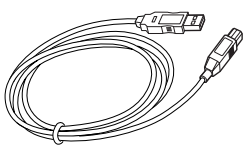
Macintosh System Requirement:

System 8.6 or later

Installing Software for Macintosh

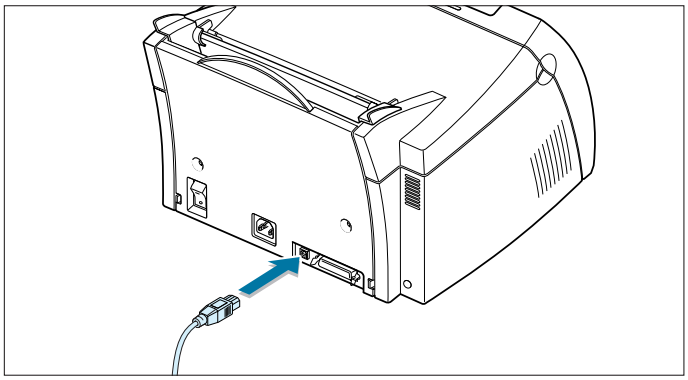
Connecting to Macintosh

You can connect the printer to your Macintosh using the USB interface.



1 Turn off the printer and computer.

2 Hold the USB cable so the icon faces up and connect it to your printer's USB connector.



3 Connect the other end of the cable to an available USB port on your Macintosh computer. If you have any connection problems, please refer to your computer documentation.

Note: If you are using a USB hub, connect the printer's cable to the first tier of the hub or the printer may malfunction. If the printer doesn't work with the hub, connect it directly to the USB port.

Installing Software

1 Turn on your computer and printer.

2 Insert the CD-ROM which came with your printer into the CD-ROM drive.

3 Double-click **ML-1430** on your Macintosh desktop.

4 Click the **Samsung Laser Printer Installer** icon next to the each language to select the correct one.
If you want to see the User Guide, click User's Guide.

5 Click **Continue**, then click **Continue**.

6 The Samsung Laser Printer Installer opens. Select installation type. The installer provides two options for software installation:

- **Easy Install** (recommended method): This option loads installs SPL driver.
- **Custom Install** : This option allows you to choose which components will be installed.
  If you want to use the SPL driver, you must install it.
  If you want to use Adobe Acrobat Reader program, you must install it.

7 Click **Install**.

8 After installation is complete, click **Quit**.

Choosing SPL Driver

1 From the **Apple** menu, select **Chooser**.

2 From the left pane of the Chooser window, click **SAMSUNG SPL**. Then the ML-1430 will appear in the right pane of the Chooser window.

3 Click the ML-1430, and close the Chooser window.

4 You see the message box indicating that you have changed your current printer. Click **OK**.

5 A ML-1430 printer icon will be created on your desktop.

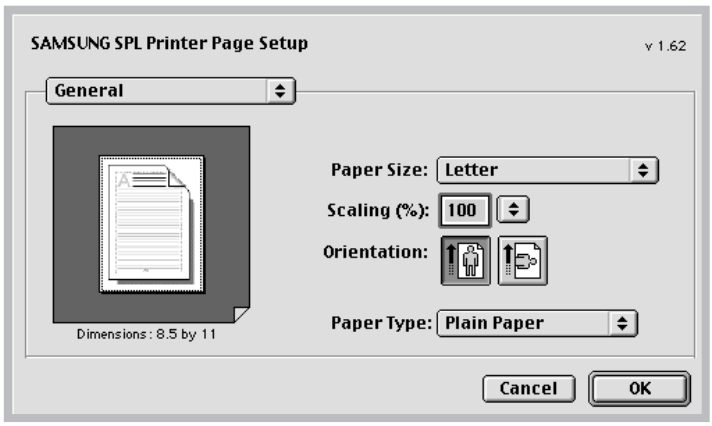
Printing from a Macintosh

When you print with a Macintosh, you need to check the printer software setting in each application you use. Follow these steps to print from a Macintosh:

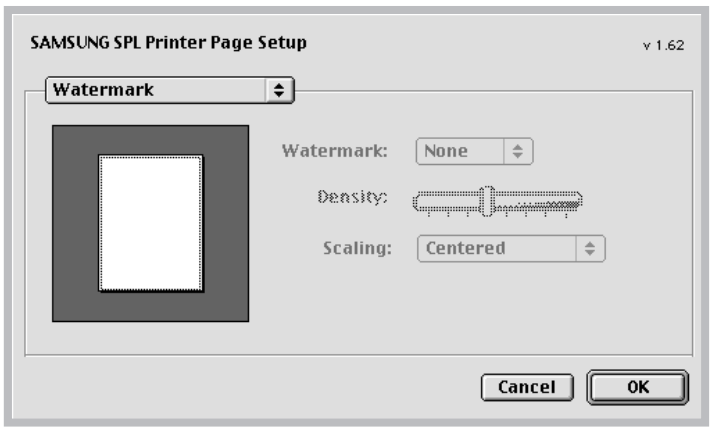
1. Open a Macintosh application and select a file you want to print.

2. Open the **File** menu, and click **Page Setup** (**Document Setup** in some applications). You see the Page Setup dialog box.

3. Choose your paper size, orientation, paper type and other options and click **OK**.

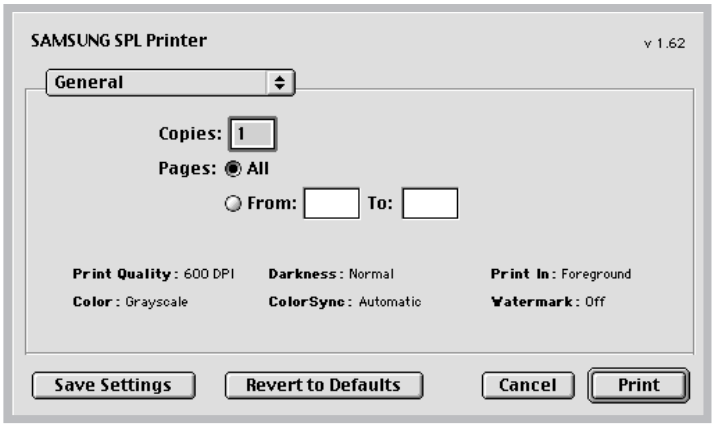


Choose **Watermark** to add a watermark to each page in your document to emphasize its purpose or indicate how it should be handled. For details on the watermark option, see page 5.13.

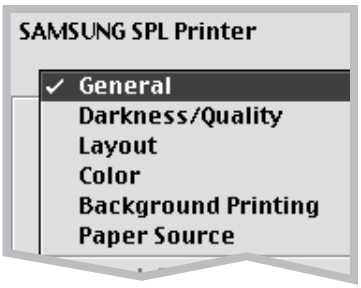


4 Open the **File** menu and click **Print**. You will see the main printer settings dialog box.

5 Choose the number of copies and indicate which pages you want to print. For advanced printing features, select the desired option. For details, see page A.15.



Select the desired option for advanced printing features.



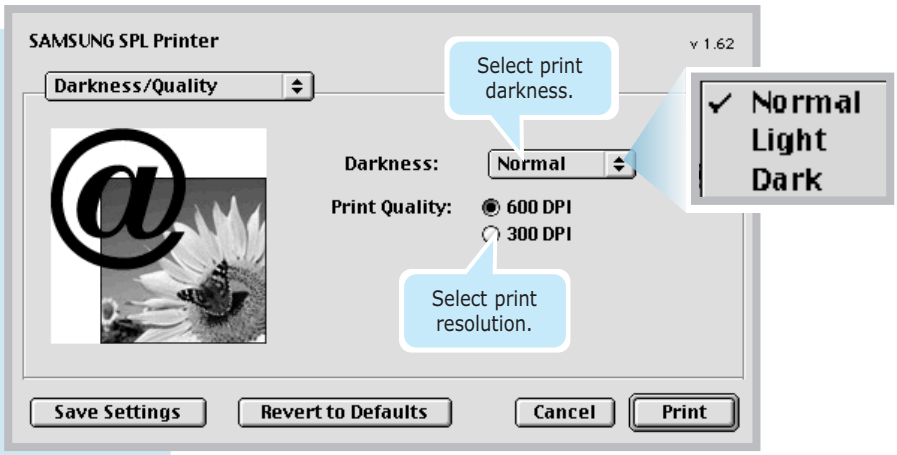
6 Click **Print** when you are finished checking your settings.

Advanced Printing

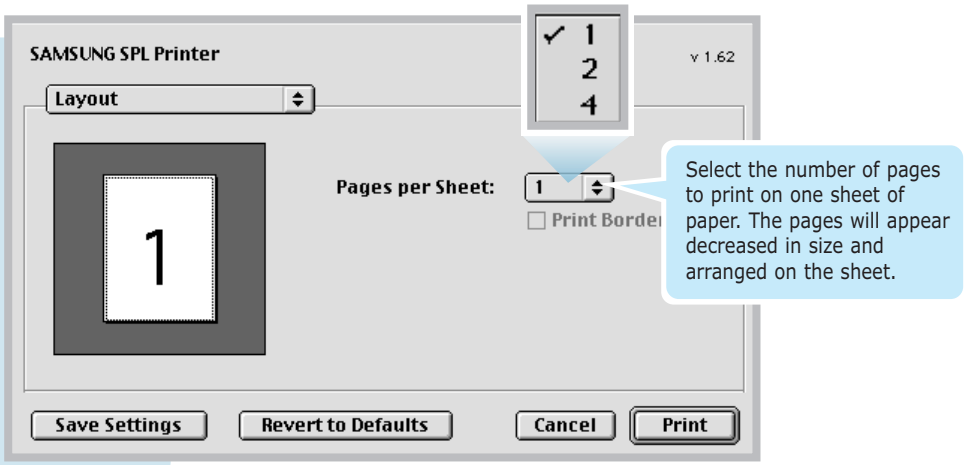
The Page Setup dialog box contains five categories of page setup properties. Listed below is the name of each property.
-Darkness/Quality
-Layout
-Color
-Background Printing
-Paper Source

Figures below display each property in the Page Setup dialog box.

Darkness/Quality



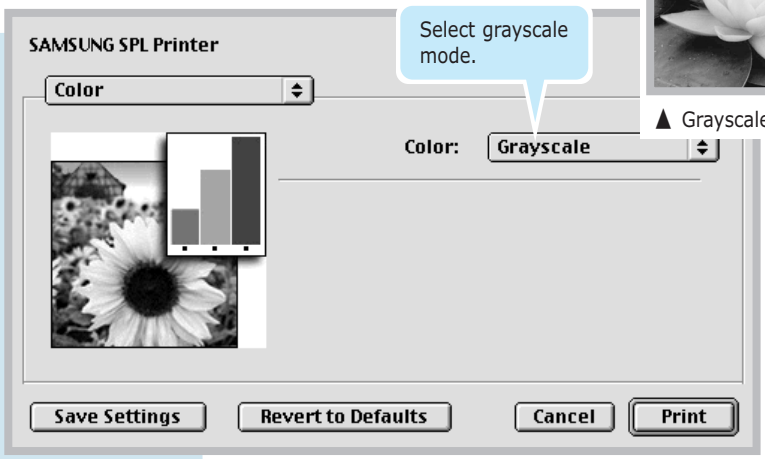
Layout



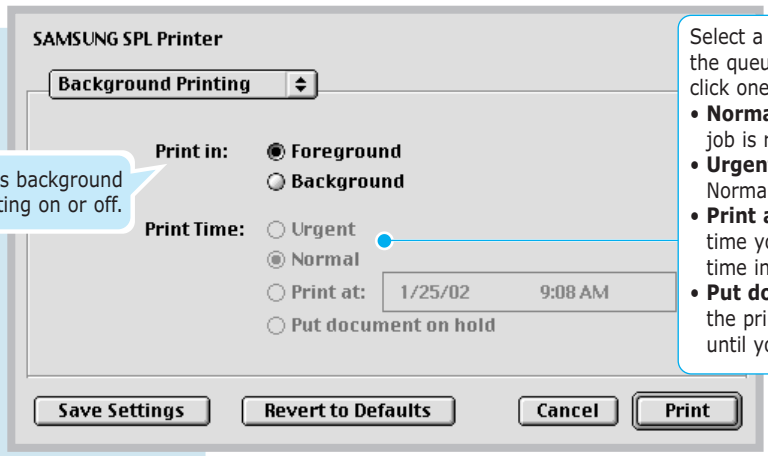
Color



▲ Grayscale ▲ Black&White



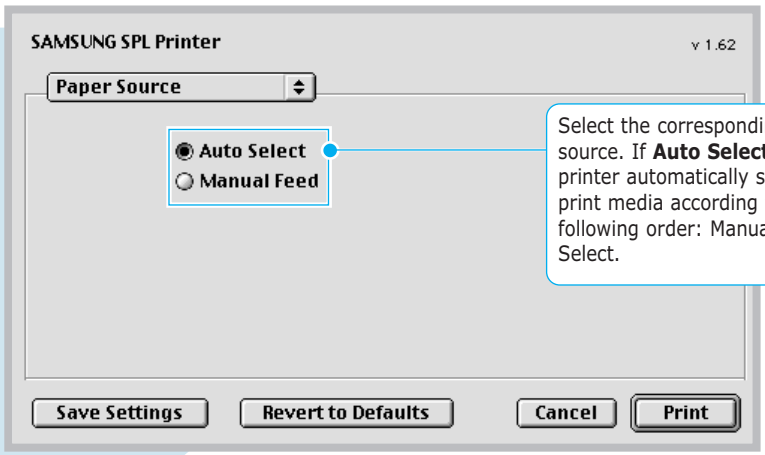
Background Printing



Select a priority for your print job in the queue of jobs waiting to print, click one of the following:

- **Normal** to print in the order the job is received.
- **Urgent** to print before any Normal priority job.
- **Print at:** to print at the specific time you enter in the day and time in the fields to the right.
- **Put document on hold** to hold the print job in the print queue until you are ready to release it.

Paper Source



Select the corresponding paper source. If **Auto Select** is set, the printer automatically selects the print media according to the following order: Manual Feed, Auto Select.

Using Printer in Linux

Installing Printer Driver

System Requirements

Supported OS
- Redhat 6.2/7.0/7.1 and above
- Linux Mandrake 7.1/8.0 and above
- SuSE 6.4/7.0/7.1 and above
- Debian 2.2 and above
- Caldera OpenLinux 2.3/2.4 and above
- Turbo Linux 6.0 and above
- Slackware 7.0/7.1 and above

Recommended Requirements
- Pentium II or Power PC G3
- RAM 64 MB or higher
- HDD 20 MB or higher

Softwares
- Glibc 2.1 or higher
- GTK+ 1.2 or higher
- GhostScript

Installing Printer Driver

1 Make sure that you connect the printer to your computer. Turn both the computer and the printer on.

2 When the Administrator Login dialog box appears, type in "**root**" in the Login field and enter the system password.

Note: You must log in as a super user (root) to install the printer software. If you are not, ask your system administrator.

3 Insert the printer software CD-ROM. The CD-ROM automatically runs.

Note: If the CD-ROM does not automatically run, click the  icon at the bottom of the screen.
When the Terminal screen appears, type in:
[root@local root]# **cd /mnt/cdrom** (the CD-ROM directory) ↵
[root@local cdrom]# **./setup.sh** ↵

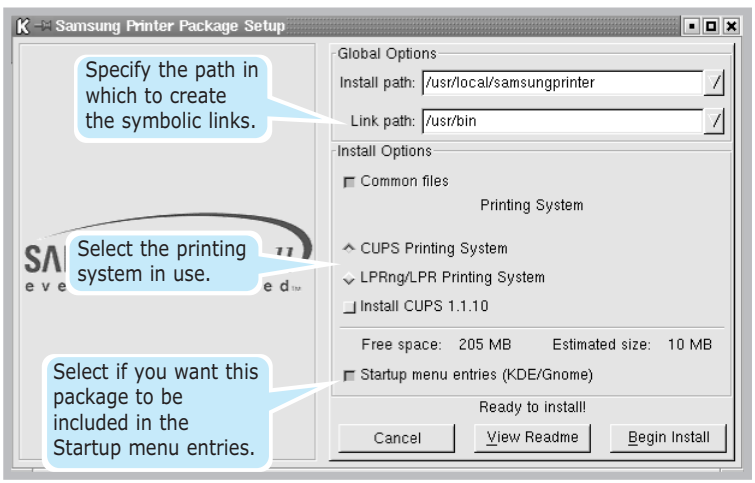
4 Select the installation type either **Recommended** or **Expert** and then click **Continue**.



Recommended is fully automated and is not required any interaction. **Expert** installation allows you to select the install path or printing system.

5 If you selected **Recommended**, go to step 6.

For **Expert**, select the desired option and then click Begin Install.



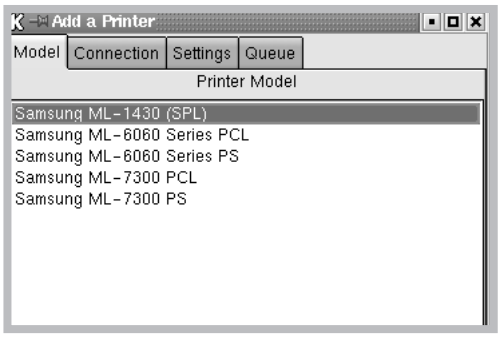
6 The printer driver installation begins. When the installation is completed, click **Start**.



7 The Samsung Printer Configuration dialog box opens. Click the **Add Printer** icon on the toolbar at the top of the dialog box.

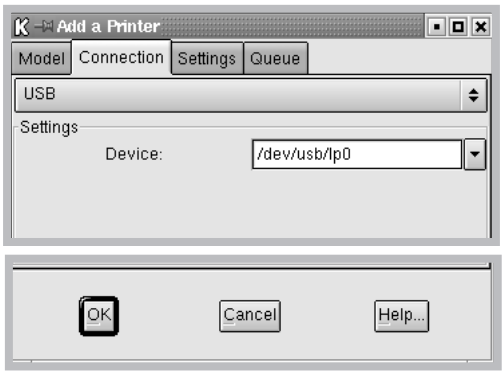
Note: Depending on the OS in use, the Administrator Login dialog box may appear. Type in "**root**" in the Login field and enter the system password.

8 You see the printers currently added in your system. Select the printer you will use. The function tabs available for the selected printer appear at the top of the Add a Printer dialog box.



Note: If the printer supports PS printing, it is recommended to select the PS driver.

9 Click the **Connection** tab and ensure that the printer port is set properly. If not proper, change the device setting.



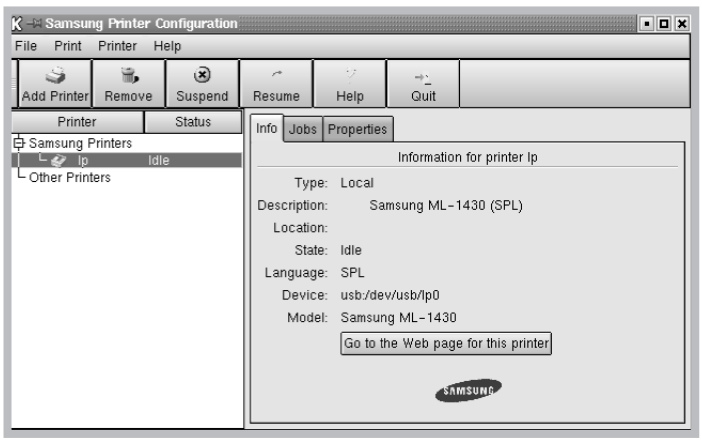
10 You can use the **Settings** tab and the **Queue** tab to view the printer's current setting. If necessary, you can change the settings.

Note: The options may differ depending on the printer in use. The Description and the Location field in the Queue screen may not appear depending on the printing system in use.

11 To exit, click **OK**.

12 When the dialog box prompts that the new printer is successfully configured, click **OK**.

13 The Samsung Printer Configuration dialog box re-appears. From the **Info** tab, you can view the information about your printer. If necessary, you can change the printer configuration. For details about changing the printer configuration, see "Using Configuration Tool" on page A.24.



Changing Printer Connection Method

If you change the printer connection method from USB to parallel or vice versa while in use, you must re-configure your Samsung printer by adding the printer in your system. Take the following steps:

1 Make sure that you connect the printer to your computer. Turn both the computer and the printer on.

2 When the Administrator Login dialog box appears, type in "**root**" in the Login field and enter the system password.

Note: You must log in as a super user (root) to install a new printer to the printing system. If you are not, ask your system administrator.

3 From the Startup Menu icon at the bottom of the screen, select **Samsung Printer** and then **Configuration Tool**.

You can also access the Samsung Printer Configuration dialog box by typing in "**samsung-config**" from the Terminal screen.

4 When the Samsung Printer Configuration dialog box appears, click the **Add Printer** icon on the toolbar at the top of the dialog box.

5 Click the **Connection** tab at the top of the Add a Printer dialog box.

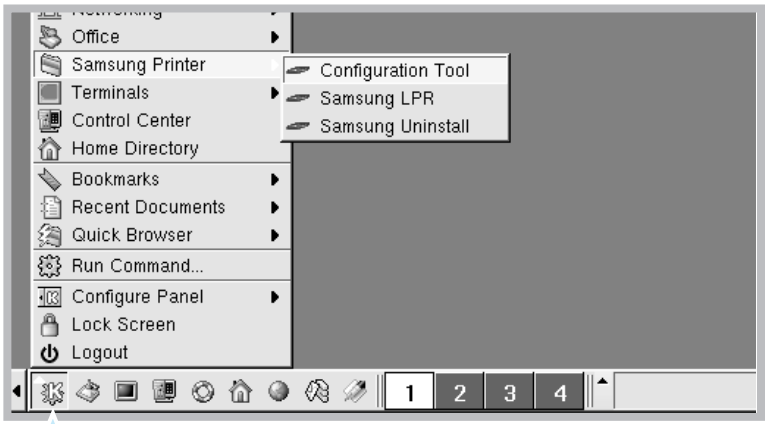
Ensure that the printer port is set properly. If not proper, change the device setting.



6 Click **OK**.

Uninstalling Printer Driver

1 From the Startup Menu icon at the bottom of the screen, select **Samsung Printer** and then **Configuration Tool**.



Startup Menu icon. The appearance may differ depending on the OS in use.

You can also access the Samsung Printer Configuration dialog box by typing in "**samsung-config**" from the Terminal screen.

2 In the Samsung Printer Configuration dialog box, select the **Uninstall** command from the **File** menu.

3 The Administrator Login dialog box appears. Type in "**root**" in the Login field and enter the system password. Click **Proceed**.

Note: You must log in as a super user (root) to uninstall the printer software. If you are not, ask your system administrator.

4 The message box which is asking your confirmation to proceed with the uninstallation appears. Click **Yes**.

5 Select **Complete uninstall** and then click **Uninstall**.



6 Click **OK** to begin uninstallation. When the uninstallation is completed, click **Finished**.

Using Configuration Tool

The configuration tool allows the administrative tasks, including adding and removing new printer, and changing their global settings. Regular users can also run it to easily inspect job queues, examine the printer properties and changing their local preference.

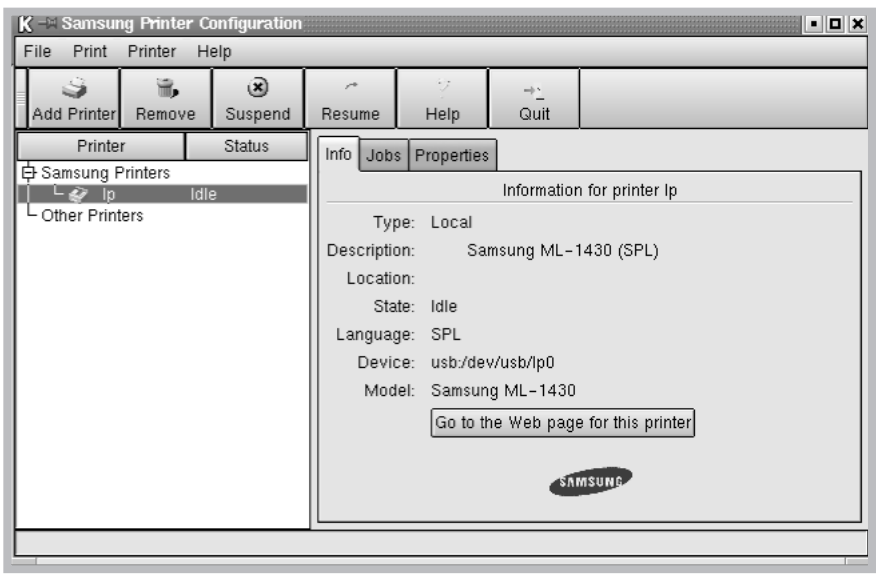
To access the Configuration Tool:

1 From the Startup Menu icon at the bottom of the screen, select **Samsung Printer** and then **Configuration Tool**. The Samsung Printer Configuration dialog box appears.

You can also open this dialog box from the Terminal screen by typing in "**samsung-config**."

2 The Samsung Printer Configuration dialog box shows a list of installed printers at the left pane. The right pane shows a number of tabs that display information regarding the currently selected printer.

Select your printer, if not currently selected.

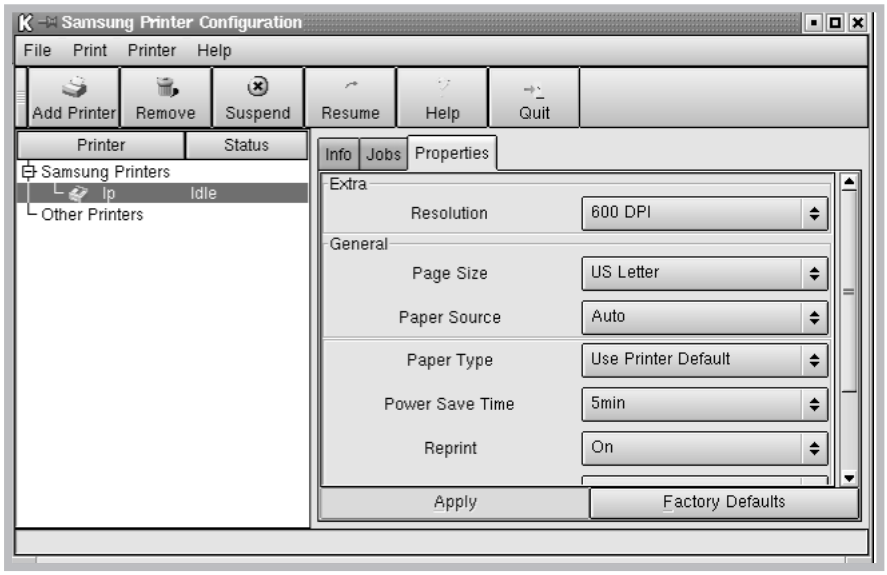


3 The **Info** tab shows general information about the printer.

If you are an Internet user, you can click **Go to the Web page for this printer** to access the Samsung web page.

Click the **Job** tab to inspect and manage the job queue for the selected printer. You can suspend, resume or delete a specific job(s) in the queue. If you drag a specific job(s), you can drop it into the print queue of another printer.

The **Properties** tab allows you to change the default printer settings.



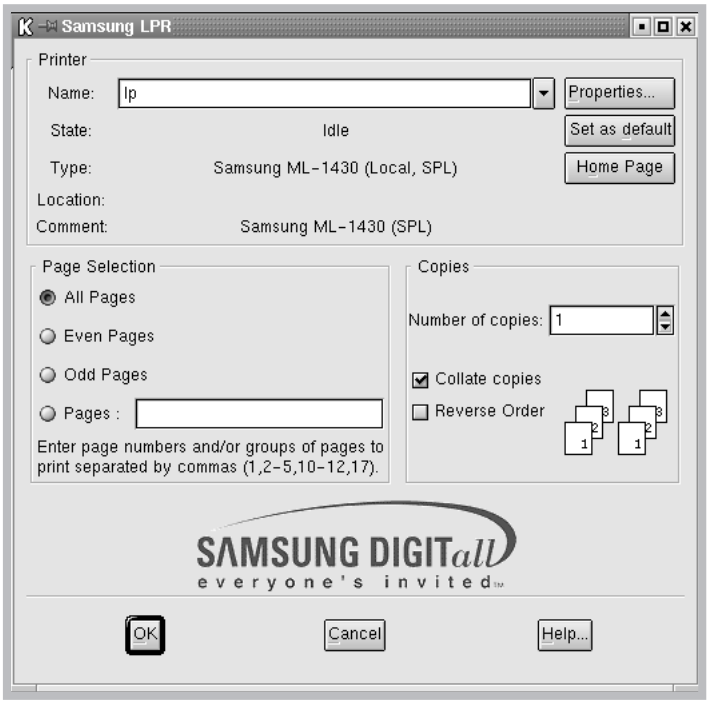
Note: Regular users are able to override the system-wide default settings defined by the administrator. When a regular user clicks **Apply**, these custom settings will be saved in the user's profile and may be later used with SLPR. If the administrator is running the configuration tool, then the settings will be saved as the new global defaults.

Changing SLPR Properties

You can fine tune the printer's properties by opening the SLPR Properties dialog box.

To open the SLPR Properties dialog box:

1 From the application you are using, select Print command. When the Samsung LPR dialog box opens, click **Properties**.

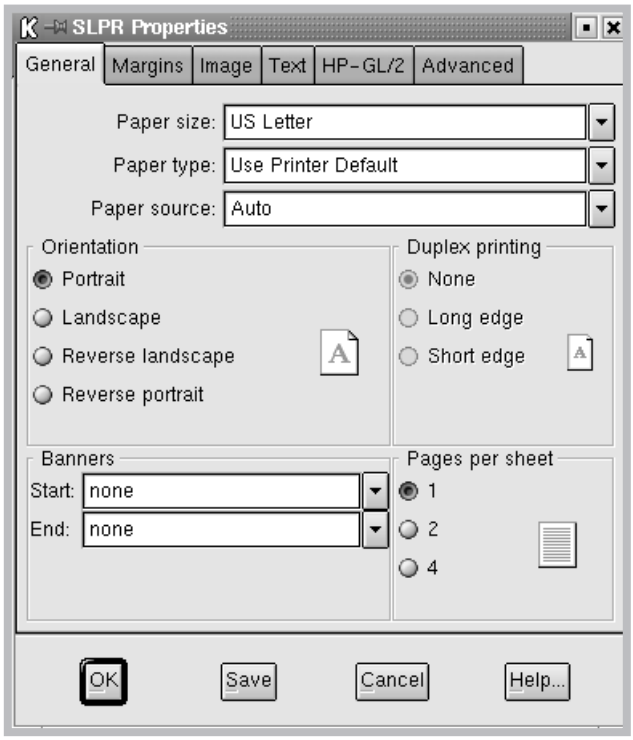


You can also open the SLPR dialog box by using the following:

- Click the Startup Menu icon at the bottom of the screen and select **Samsung Printer** and then **Samsung LPR**.
- If the Samsung Printer Configuration dialog box is currently open, select **Test Print** from the **Print** menu.

2 The SLPR Properties dialog box opens. You will see the following six tabs at the top of the dialog box:

- **General** - allows you to change the paper size, the paper type, the paper source, the orientation of the documents, enable duplex feature, add start and end banners, and change the number of pages per sheet.
- **Margins** - allows you to specify the page margins. The graphics on the right shows the current settings. These margins do not apply when printing regular PostScript data.
- **Image** - allows you to set options that will be used when printing images files through SLPR directory, i.e. when a non-PostScript document is passed on the command line.
- **Text** - allows you to select the density of the text and turn the syntax coloring on or off.
- **HP-GL/2** - allows you to print documents in the HP-GL/2 format, which is used by some plotters.
- **Advanced** - allows you to override the default settings for the printer.



If you click the **Save** button at the bottom of the dialog box, the options will be kept between SLPR session.

Use the **Help** button to view details about the options in the dialog box.

To apply the options, click **OK** in the SLPR Properties dialog box. You will return to the Samsung LPR dialog box. To start printing, click **OK**.

INDEX

A

automatic input tray
  loading paper 4.5
  paper source setting 5.3

C

cancel, print job 5.5
Cancel/Reprint button 3.2
cardstock, print 4.13
clean, printer 6.4
clean sheet, print 6.5
components 1.3
control panel
  buttons 3.1
  lights 3.3

D

Data light 3.3
Demo button 3.1
demo page, print 2.7
driver
  access 5.1
  install 2.8
  in Linux A.17
  Macintosh A.10
  remove 2.11
  USB 2.13

E

envelopes, print 4.7
Error light 7.17
error messages 7.17

F

face-down output tray 4.4
face-up output slot 4.4
features 1.1
fitting to a selected paper size 5.8

G

graphic properties 5.11

I

install
  Linux driver A.17
  Macintosh driver A.10
  printer software 2.8
  toner cartridge 2.2
  USB driver 2.13

J

jam see *paper jam*

L

labels, print 4.10
letterhead, print 4.12
Linux
  install A.17
load, paper
  In the automatic input tray 2.4
  in the manual input tray 4.5

M

Macintosh A.10
manual input tray
  loading paper 4.5
  paper source setting 5.3
multiple pages on one sheet, print 5.7

N

network, setup 5.21
n-up printing 5.7

O

orientation 5.3
output lever 4.4
output location, select 4.4
overlays, print 5.16

P

page overlays, print 5.16
paper
  acceptable size and capacities 4.2, A.3
  choose 4.1
  guidelines 4.3, A.4
  load 2.4, 4.5
  specifications A.2
  storage environment A.6
paper jam, clear
  input area 7.6
  inside the printer 7.8
  output area 7.6
  tips avoiding paper jams 7.10
Paper light 3.3
paper orientation, setting 5.3
paper out, indication 3.3, 7.17
paper size, setting 5.3
paper source, setting 5.3
paper type, setting 5.3
parallel, connection 2.6
posters, printing 5.9
power save mode 5.12
print media see *paper*
printer light patterns 3.3, 7.17
print quality problem, solving
  back of printouts dirty 7.15
  background scatter 7.14
  black pages 7.15
  character voids 7.16
  checklist 7.11
  curl or wave 7.15
  dropouts 7.12
  gray background 7.13
  horizontal stripes 7.16
  light print or fade 7.11
  loose toner 7.16
  misformed characters 7.14
  page skew 7.14
  toner smear 7.13
  toner specks 7.12
  vertical lines 7.12
  vertical repetitive defects 7.13
  wrinkles or creases 7.15
printer driver see *driver*
printer software, install 2.8
printing
  cancel 5.5
  cleaning sheet 6.5
  demo page 2.7
  fitting to a selected paper size 5.8
  general problems, solving 7.2
  help 5.5
  multi pages on one sheet 5.7
  on a network envirionment 5.21
  page overlay 5.16
  posters 5.9
  quality problems, solving 7.11
  watermarks 5.13

problem, solving
  checklist 7.1
  common Linux problems 7.22
  common macintosh problems 7.21
  common windows problems 7.20
  error messages 7.17
  general 7.2
  paper jam 7.6
  print quality 7.11

Q

quality, problems 7.11

R

reprint, last page 5.20
resolution 5.11

S

setup printer chapter 2
specifications
  paper A.2
  printer A.1
system error 7.19

T

toner cartridge
  clean 6.5
  install 2.2
  life expectancy 6.1
  recycle 6.1
  redistribute toner 6.2
  save toner 5.6
  storage 6.1
Toner Save button 3.2. 5.6
transparency, print 4.11
troubleshooting see *problem, solving*

U

uninstall, driver 2.11
unpack 2.1
USB cable, setup 2.13

W

watermark, print 5.13

Visit us at:
www.samsungprinter.com

Home

Rev.1.01